

VICINITY MAP
N.T.S.

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CONSULTANTS

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SURVEYOR:
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DATUM/BASIS OF BEARINGS

PER BOUNDARY LINE ADJUSTMENT REC. NO. 20120295003, THE CENTERLINE OF 44TH AVE W BEARS N00°44'17"E BETWEEN MONUMENTS FOUND.

NAVD 88 PER GPS OBSERVATIONS
SNOHOMISH COUNTY BENCHMARK PT. 186=CAD#
3"x3" CONC POST W/LEAD & TACK @ CL PI INTX 44TH AVE W & 76TH ST SW,
DN 0.5',
ELEVATION: 556.508 (PUBLISHED) 556.70' (MEASURED)

TBM #1: SSMH RIM NEAR PROPERTY NORTH LINE OF SITE, ELEV=575.28'

TBM #2: PK NAIL IN CONC WALK, S. OF WHEELCHAIR RAMP ON WEST SIDE OF 44TH AVE W AT INTX 80TH ST SW, ELEV=581.84'

LEGAL DESCRIPTION

PARCEL A:
LOT 1 OF CITY OF MUKILTEO BOUNDARY LINE ADJUSTMENT RECORDED UNDER AUDITOR'S FILE NO. 201210290638, AND SURVEY THEREOF RECORDED UNDER AUDITOR'S FILE NO. 201210295003, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
LOT 1 OF CITY OF MUKILTEO SHORT PLAT RECORDED UNDER AUDITOR'S FILE NO. 8304080271, RECORDS OF SNOHOMISH COUNTY, WASHINGTON;
EXCEPT THE SOUTH 15 FEET THEREOF, BEING A PORTION OF LOT 98 WEST & WHEELERS SEAVIEW FIVE ACRE TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 7 OF PLATS, PAGE(S) 12 AND 13, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

PARCEL B:
LOT 2 OF CITY OF MUKILTEO BOUNDARY LINE ADJUSTMENT RECORDED UNDER AUDITOR'S FILE NO. 201212200420, AND SURVEY THEREOF RECORDED UNDER AUDITOR'S FILE NO. 201212205001, RECORDS OF SNOHOMISH COUNTY, WASHINGTON,

BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
LOT 2 OF CITY OF MUKILTEO BOUNDARY LINE ADJUSTMENT RECORDED UNDER AUDITOR'S FILE NO. 201210290638, AND SURVEY THEREOF RECORDED UNDER AUDITOR'S FILE NO. 201210295003 RECORDS OF SNOHOMISH COUNTY, WASHINGTON;

TOGETHER WITH THAT PORTION OF PARCEL A OF CITY OF MUKILTEO BOUNDARY LINE ADJUSTMENT RECORDED UNDER AUDITOR'S FILE NO. 201210290639, AND SURVEY THEREOF RECORDED UNDER AUDITOR'S FILE NO. 201210295003, RECORDS OF SNOHOMISH COUNTY, WASHINGTON DESCRIBED AS FOLLOWS:
COMMENCING AT THE MOST SOUTHWEST CORNER OF SAID PARCEL A;
THENCE NORTH 00°37'47" EAST, A DISTANCE OF 290.21 FEET;
THENCE NORTH 88°37'43" WEST, A DISTANCE OF 10.27 FEET;
THENCE NORTH 00°42'45" EAST, A DISTANCE OF 148.32 FEET;
THENCE SOUTH 88°47'17" EAST, A DISTANCE OF 175.47 FEET;
THENCE SOUTH 00°15'55" WEST, A DISTANCE OF 150.85 FEET;
THENCE NORTH 89°15'43" WEST, A DISTANCE OF 60.02 FEET;
THENCE SOUTH 00°15'55" WEST, A DISTANCE OF 286.00 FEET;
THENCE NORTH 89°15'43" WEST, A DISTANCE OF 108.16 FEET TO THE POINT OF BEGINNING;
BEING A PORTION OF LOTS 97 AND 98, WEST & WHEELERS SEAVIEW FIVE ACRE TRACTS, ACCORDING TO THE PLAT
THEREOF RECORDED IN VOLUME 7 OF PLATS, PAGE(S) 12 AND 13, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.
TOGETHER WITH THAT PORTION OF VACATED 80TH STREET SOUTHWEST ADJACENT THERETO, AS VACATED BY CITY OF MUKILTEO ORDINANCE NO. 1238, RECORDED UNDER AUDITOR'S FILE NO. 201302111033.

PARCEL C:
LOT 1, SNOHOMISH COUNTY SHORT PLAT NO. SP128(4–76) RECORDED UNDER RECORDING NO. 7605100281, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, BEING A PORTION OF THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN.

PARCEL D:
LOT 2, SNOHOMISH COUNTY SHORT PLAT NO. SP128(4–76) RECORDED UNDER RECORDING NO. 7605100281, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, BEING A PORTION OF THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN.

PARCEL E:
LOT 3, SNOHOMISH COUNTY SHORT PLAT NO. SP128(4–76) RECORDED UNDER RECORDING NO. 7605100281, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, BEING A PORTION OF THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN.

ALL SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

PACIFIC SEAFOOD
CIVIL PLANS
8007 44TH AVE W
MUKILTEO, WA 98274

SW 1/4 OF SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

PROJECT DATA

PARCEL NUMBERS) =
0061160000980
00611600009701
28041000301800
28041000303000
28041000301700

EXISTING USE = PI (PLANNED INDUSTRIAL)
PROPOSED USE = PI (PLANNED INDUSTRIAL)
ZONING DESIGNATION = PI (PLANNED INDUSTRIAL)
TOTAL PROPERTY AREA = 217,099± SF (4.98 ACRES)
PROPOSED ROW DEDICATION = 4,537 SF
PROPOSED PROPERTY AREA = 212,562 SF (4.88 ACRES)

EXISTING LAND COVER AREAS:
IMPERVIOUS = 25,688 SF
PERVIOUS = 186,875 SF

PROPOSED LAND COVER AREAS:
IMPERVIOUS = 181,210 SF (85% OF TOTAL SF)
NP&IS = 62,290 SF (29% OF TOTAL SF)
PGIS = 118,920 SF (56% OF TOTAL SF)
PERVIOUS: = 31,352 SF (15% OF TOTAL SF)

EARTHWORK NOTE

IT IS ANTICIPATED, THAT APPROXIMATELY 5,000 CUBIC YARDS OF CUT/FILL WILL BE MOVED ON SITE FOR THIS PROJECT.

PLEASE NOTE THAT THIS NUMBER IS TO BE USED FOR PERMITTING AND AGENCY USE ONLY AND IS NOT AN ACTUAL QUANTITY TO BE USED FOR BIDDING, COST ESTIMATING, OR OTHER PURPOSES.

ON-SITE SHEET INDEX

- CV–1 COVER SHEET
- CV–2 CIVIL GENERAL NOTES
- D–2.0 T.E.S.C. PLAN
- D–2.1 T.E.S.C. NOTES AND DETAILS
- C–1.0 SITE AND PAVING IMPROVEMENTS
- C–1.1 SITE NOTES AND DETAILS
- C–2.0 DRAINAGE PLAN
- C–2.1 FINISHED GRADING PLAN
- C–2.2 DRAINAGE NOTES AND DETAILS
- C–2.3 DRAINAGE NOTES AND DETAILS
- C–2.4 DRAINAGE NOTES AND DETAILS
- C–3.0 WATER PLAN
- C–3.1 SEWER PLAN
- C–3.2 WATER NOTES AND DETAILS
- C–3.3 WATER DETAILS
- C–3.4 SEWER NOTES AND DETAILS
- C–3.5 SEWER DETAILS

OFF-SITE SHEET INDEX

- CR–1.0 ROADWAY PLAN AND PROFILE
- CR–1.1 ROADWAY NOTES AND DETAILS
- CR–1.2 ROADWAY DETAILS
- CR–1.3 ROADWAY DETAILS
- CH–1.0 CHANNELIZATION PLAN
- CH–1.1 CHANNELIZATION DETAILS

GENERAL NOTES

SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE PROJECT SPECIFICATIONS, THE CITY OF MUKILTEO STANDARD SPECIFICATIONS, AND THE A.P.W.A. STANDARDS WHICH ARE HEREBY REFERENCED AS PART OF THESE PLANS.

THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SHEET ARE BASED UPON THE SURVEY PREPARED BY TERRANE, INC. (FORMERLY GEODIMENSIONS INC.), DATED 02/12/16. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED SITEWORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITEWORK WHICH WOULD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.

CAUTION – NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.



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Call before you dig.



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PACIFIC SEAFOOD
PROCESSING FACILITY
8007 44TH AVE W
MUKILTEO, WA 98274
COVER SHEET

Designed By:	Issue Date:	No.	Date	By	Revision	Description
JWT/SNG/TW	09/16/2016					
Drawn By:	Project No.					
SNG/TW	50530001					
Checked By:						
JUV						

No.	Date	By	Revision	Description

B:\Washington\Mukilteo\Pacific Seafood\2Drawings\WUPS_001C.dwg Sep 16, 2016 -- 2:02pm

WATER SYSTEM INSTALLATION NOTES

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE MUKILTEO WATER AND WASTEWATER DISTRICT. THE DEVELOPER, CONTRACTOR AND PROPOSED ON-SITE SUPERVISORS SHALL ATTEND.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE MUKILTEO WATER AND WASTEWATER DISTRICT DEVELOPER STANDARDS. CONTRACTOR TO HAVE MUKILTEO WATER AND WASTEWATER DISTRICT STANDARDS ON JOB SITE.
3. NO DISTRICT INSPECTIONS WILL TAKE PLACE AND THE JOB WILL BE SHUT DOWN UNLESS AN APPROVED AND DISTRICT SIGNED COPY OF THESE PLANS ARE ON THE JOB SITE AT ALL TIMES CONSTRUCTION IS IN PROGRESS.
4. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, DISTRICT AND APPROPRIATE PUBLIC AGENCIES.
5. NOTIFY THE DISTRICT 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
6. THE DISTRICT SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO THE TIME THE DEVELOPER WOULD LIKE TO CONNECT TO EXISTING MAINS OR FOR INSTALLATION OF TAPPING TEES. THE CONNECTION SHALL BE DONE IN ACCORDANCE WITH DISTRICT REQUIREMENTS. CONNECTIONS TO TAKE PLACE TUESDAYS THROUGH THURSDAYS ONLY. DEVELOPER SHALL NOT OPERATE ANY DISTRICT VALVES; THESE WILL BE OPERATED BY WATER DISTRICT PERSONNEL ONLY.
7. FOR AID IN UTILITY LOCATION, CALL 1-800-424-5555, A MINIMUM OF 48 HOURS (2 WORKING PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
8. WATER LINE CONSTRUCTION WITHIN THE PROPOSED DEVELOPMENT SHALL NOT COMMENCE UNTIL THE STREET HAS BEEN BROUGHT TO SUB-GRADE, MEETING MUKILTEO WATER DISTRICT APPROVAL.
9. WATER MAIN SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION, WITH 25-FOOT STAKES ON LOT CORNER STAKES SHALL ALSO BE IN PLACE PRIOR TO CONSTRUCTION.
10. PIPE SHALL BE DUCTILE IRON, AWWA CLASS 52 THICKNESS, WITH RUBBER GASKETS, PUSHON TYPE, OR MECHANICAL JOINT, MEETING AWWA SPECIFICATIONS. FITTINGS SHALL BE AWWA, CEMENT LINED, DUCTILE IRON, AND EITHER MECHANICAL JOINT OR FLANGED, AS INDICATED HEREIN. ALL PIPE TO BE PURCHASED AND INSTALLED AS A PART OF THE DEVELOPERS WATER SYSTEM SHALL BE DELIVERED TO THE JOB SITE WITH WATER TIGHT WRAPPING OR PIPE PLUGS. PLUGS AND/OR WRAPPING SHALL REMAIN IN PLACE UNTIL THE PIPE IS INSTALLED IN THE TRENCH.
11. UNLESS OTHERWISE SPECIFIED VALVES 12 INCH AND SMALLER SHALL BE DUCTILE IRON RESILIENT SEATED GATE VALVES; ACCEPTABLE VALVES ARE MUELLER, CLOW, M&H, U.S. PIPE AND AMERICAN FLOW CONTROL, SERIES 2500. VALVES LARGER THAN 12 INCHES SHALL BE DUCTILE IRON BUTTERFLY VALVES; ACCEPTABLE VALVES ARE PRATT GROUNDHOG AND DRESSER 450.
12. ALL BOLTS ON WATER WORKS FITTINGS SHALL BE COATED WITH ARMITE ANTI-SEIZE COMPOUND NO. 609, OR EQUAL, PRIOR TO INSTALLATION. ALL WATER WORKS FITTINGS AND BOLTED ASSEMBLIES SHALL BE COMPLETELY COVERED WITH VISQUEEN PLASTIC, 4 MIL. THE END OF THE PLASTIC SHALL BE TAPED TO SECURE THEM TO THE PIPE.
13. HYDRANTS SHALL BE MUELLER CENTURION A-423, CLOW MEDALLION, OR DRESSER RELIANT 929 MEETING AWWA SPECIFICATIONS. HYDRANTS SHALL BE FURNISHED WITH THREADED OUTLETS, MEETING FIRE DISTRICT/DEPARTMENT STANDARDS. BOTH THRUST BLOCKING AND MEGA LUGS RESTRAINTS ARE REQUIRED ON EACH HYDRANT INSTALLATION. HYDRANTS WITHIN THE CITY OF MUKILTEO FIRE SERVICE AREA AND FIRE DISTRICT #1 SHALL BE EQUIPPED WITH 4-INCH STORZ ADAPTERS; ALL OTHER HYDRANTS SHALL UTILIZE A 5-INCH STORZ ADAPTER. ALL HYDRANTS SHALL HAVE A 4-1/2-INCH NST THREADS ON PUMPER PORT.
14. PROVIDE THRUST BLOCKING AND/OR RESTRAINED JOINTS AT ALL FITTINGS AND BENDS AND UP THRUST FITTINGS, IN ACCORDANCE WITH DISTRICT STANDARDS, CONDITIONS AND SPECIFICATIONS.
15. ALL NEW CONNECTIONS TO THE EXISTING WATER SYSTEM SHALL BE IN STRICT CONFORMANCE WITH THE APPROPRIATE SUBSECTIONS OF THE SPECIFICATIONS OF THE DISTRICT. NO CONNECTION SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING MAINS UNTIL THE NEW PIPING HAS BEEN FLUSHED, DISINFECTED, TESTED AND RECEIVED SATISFACTORY BACTERIOLOGICAL TEST RESULTS.
16. INDIVIDUAL WATER SERVICES TO THE PROPERTY LINE SHALL BE 1"DIAMETER MINIMUM SIZE AND BE INSTALLED WITH 36-INCH MINIMUM COVER.
17. RESIDENTIAL FIRE SPRINKLER SYSTEMS SHALL HAVE A MINIMUM 1-INCH METER/SERVICE. BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ON ALL RESIDENTIAL FIRE SPRINKLER SYSTEMS AND LOCATED IMMEDIATELY BEHIND THE WATER METER/SERVICE ON THE PROPERTY SIDE.
18. FIRE LINE SERVICES SHALL HAVE A DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY INSTALLED IN A UTILITY VAULT AT THE ROW/PROPERTY LINE WITH A 6-INCH PVC GRAVITY DRAIN TO STORM. FIRE LINE SERVICE SHALL TERMINATE, IN THE STRUCTURE TO BE SERVED, WITH THE DISTRICT'S RISER DETAIL.
19. ALL COMMERCIAL, MULTI-FAMILY, INDUSTRIAL AND IRRIGATION SERVICES SHALL INCLUDE A DOH APPROVED BACKFLOW PREVENTION ASSEMBLY LOCATED IMMEDIATELY BEHIND AND ON THE PROPERTY SIDE OF THE WATER METER. ALTERNATE LOCATIONS MAY BE ACCEPTABLE UPON APPROVAL BY THE DISTRICT. STRUCTURES REQUIRING FIRE SPRINKLER SYSTEM SHALL HAVE AT LEAST ONE BACKFLOW PREVENTION ASSEMBLY PER EACH STRUCTURE, PROTECTING THE POTABLE WATER SYSTEM FROM THE FIRE SYSTEM. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED IN A FLOOD PROOF VAULT OR SERVICE BOX, DEPENDING ON SIZE, OUTSIDE THE STRUCTURE IN A LOCATION APPROVED BY THE DISTRICT.
20. WHERE ROAD GRADES ARE ESTABLISHED, PROVIDE A MINIMUM OF 48-INCH COVER OVER 12 INCH OR LARGER WATER MAINS, AND PROVIDE A MINIMUM OF 42-INCH COVER OVER 8-INCH MAINS; OR ADDITIONAL DEPTH AS REQUIRED TO MISS OTHER UTILITIES.
21. WATER MAINS CONSTRUCTED WITHIN EASEMENTS OR PRIVATE ROADS SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT, RESTRAINED JOINTS AND WITH A 5'-0" MINIMUM COVER. DURING BACKFILL OPERATIONS, FURNISH AND INSTALL 3-INCH-WIDE METALLIC MARKER TAPE WITH 3 FEET OF COVER OVER WATER MAIN.
22. MINIMUM RADIUS FOR 12 INCH AND SMALLER PIPELINES CONSTRUCTED ON CURVES (4 DEGREE DEFLECTION PER JOINT) IS 258 FEET.
23. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS, WHICH SHALL BE 100%.
24. CONSTRUCTION INSPECTION WILL BE DONE BY MUKILTEO WATER AND WASTEWATER DISTRICT AND/OR THEIR DESIGNATED ENGINEER. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE DISTRICT IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.
25. THE WATER MAIN CONSTRUCTION PHASE WILL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLATION IS ACCEPTABLE TO THE DISTRICT INCLUDING A SATISFACTORY HYDROSTATIC PRESSURE TEST, A SATISFACTORY DISINFECTION TEST, SATISFACTORY FLOW OF SERVICE LINES, AND COMPLETION OF ALL ITEMS ON THE INSPECTOR'S PUNCH LIST.
26. WATER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE DISTRICT AND AFTER PAYMENT OF ALL CURRENT APPLICABLE FEES.

SW 1/4 OF SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

SEWER SYSTEM INSTALLATION NOTES

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE MUKILTEO WATER AND WASTEWATER DISTRICT. THE DEVELOPER, CONTRACTOR AND PROPOSED ON-SITE SUPERVISOR SHALL ATTEND.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE MUKILTEO WATER AND WASTEWATER DISTRICT DEVELOPER STANDARDS. CONTRACTOR TO HAVE MUKILTEO WATER AND WASTEWATER DISTRICT STANDARDS ON JOB SITE AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.
3. A DISTRICT APPROVED SIGNED COPY OF THE PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE DISTRICT, THE PROJECT SPECIFICATIONS, AND THE MOST RECENT EDITION OF THE APWA STANDARDS AND SPECIFICATIONS.
5. WORK SHALL NOT COMMENCE UNTIL APPROVAL IS RECEIVED FROM THE STATE DEPARTMENT OF ECOLOGY, UNLESS THE REVIEW AND APPROVAL IS WAIVED BY ECOLOGY.
6. FRONT PROPERTY CORNERS SHALL BE SET BY A LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON PRIOR TO THE START OF CONSTRUCTION.
7. NOTIFY THE DISTRICT 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
8. FOR AID IN UTILITY LOCATION, CALL 1-800-424-555, A MINIMUM OF 48 HOURS (2 WORKING PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
9. PIPE LENGTHS, MANHOLE DEPTHS, ETC., AS SHOWN ARE APPROXIMATE. DEVELOPER IS RESPONSIBLE FOR SUPPLYING PROPER QUANTITIES OF MATERIALS.
10. PROVIDE THE DISTRICT'S INSPECTOR WITH A COPY OF ALL CUT SHEETS PRIOR TO CONSTRUCTION.
11. PERMANENT ACCESS FOR DISTRICT SERVICE VEHICLES SHALL BE PROVIDED AT ALL MANHOLES. MANHOLES SHALL BE CONSTRUCTED AS PER DISTRICT STANDARD DETAILS, INCLUDING CONSTRUCTION OF CHANNELS. WHERE INDICATED, PROVIDE KNOCK-OUTS AND CHANNELIZATION FOR SIDE SEWER OR FUTURE MAINLINE EXTENSIONS; AND FOR PVC PIPE, PROVIDE A WATERTIGHT FLEXIBLE RUBBER BOOT OR HEAVY DUTY SAND COLLAR. PROVIDE LOCKING LIDS FOR MANHOLE COVERS.
12. CONNECTION TO EXISTING MAIN SHALL BE DONE SO AS TO PREVENT ANY FOREIGN MATERIALS FROM ENTERING EXISTING SEWERS. EXISTING PIPE IN SADDLE MANHOLE INSTALLATIONS SHALL NOT BE CUT OR REMOVED UNTIL INSTRUCTED TO DO SO BY THE DISTRICT.
13. CONNECTION TO EXISTING MANHOLES SHALL BE MADE BY UTILIZATION OF A CONCRETE COREDRILLING MACHINE OF ADEQUATE DIAMETER TO GROUT IN PLACE AN ADAPTER IF PVC SEWER LINES ARE INSTALLED. ALIGN CORE-DRILLING MACHINE TO PROVIDE MINIMUM OF 0.10-FOOT DROP ACROSS THE MANHOLE.
14. PVC PIPE SHALL BE SDR-35 ASTM D3034 FURNISHED IN 13-FOOT MAXIMUM LENGTHS AND SHALL BE FULLY ENCASED IN PEA GRAVEL (OR CRUSHED ROCK, BASE COURSE, IF INSTALLED WITHIN THE CITY LIMITS OF EVERETT) EXTENDING FROM 4 INCHES BELOW TO 12 INCHES ABOVE PIPE BARREL.
15. DI SANITARY SEWER PIPE SHALL CONFORM TO AWWA C151 AND SHALL BE POLYETHYLENE OR EPOXY LINED, RESTRAINED JOINT. THE DI PIPE SHALL BE CLASS 52, UNLESS OTHERWISE APPROVED.
16. SEWERS TO BE LOCATED BELOW POTABLE WATER LINES, WITH 18-INCHES VERTICAL SEPARATION AND WITH A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION FROM PARALLEL WATER LINES. CROSSING ANGLES SHALL BE 45 DEG. OR GREATER. UNUSUAL OR SPECIAL CONDITIONS ARE ADDRESSED IN ACCORDANCE WITH THE DEPARTMENT ECOLOGY AND DEPARTMENT OF HEALTH CRITERIA.
17. SIDE SEWER SHALL BE A MINIMUM OF 6 INCHES IN DIAMETER AND SHALL HAVE A MINIMUM SLOPE OF 2%. SIDE SEWER SHALL INCLUDE TWO 6-INCH TEES AT THE PROPERTY LINE; ONE WITHIN THE PUBLIC RIGHT-OF-WAY AND ONE WITHIN THE PRIVATE PROPERTY. SEE DETAIL.
18. ALL SEWER LINES SHALL BE CLEANED AND TESTED IN ACCORDANCE WITH DISTRICT STANDARDS AND SPECIFICATIONS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND/OR REPAIRING ASPHALT AND GRAVEL SURFACE DISTURBED AS A RESULT OF THIS CONSTRUCTION UNTIL THEY ARE ACCEPTED BY THE PUBLIC WORKS DEPARTMENT OF THE CITY AND/OR COUNTY.
20. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS WHICH SHALL BE 100%.
21. MANHOLE COVERS LOCATED IN ASPHALT AREAS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO PAVING.
22. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE DISTRICT IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.
23. SEWER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE DISTRICT AND AFTER PAYMENT OF ALL CURRENT APPLICABLE FEES.



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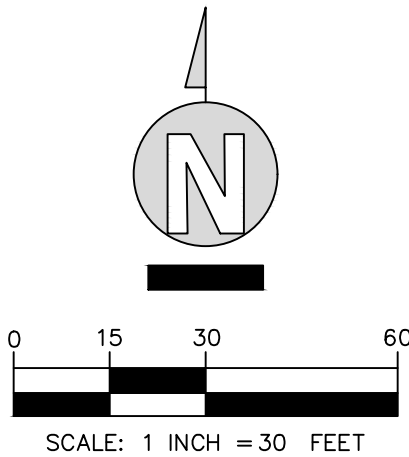
PACIFIC SEAFOOD

PROCESSING FACILITY
8007 44TH AVE W
MUKILTEO, WA 98274

CIVIL GENERAL NOTES

CV-2

Designed By:	Issue Date:	No.	Date	By	Revision	Description
JWT/SNG/TW	09/16/2016					
Drawn By:	Project No.					
SNG/TW	50530001					
Checked By:						
JUV						

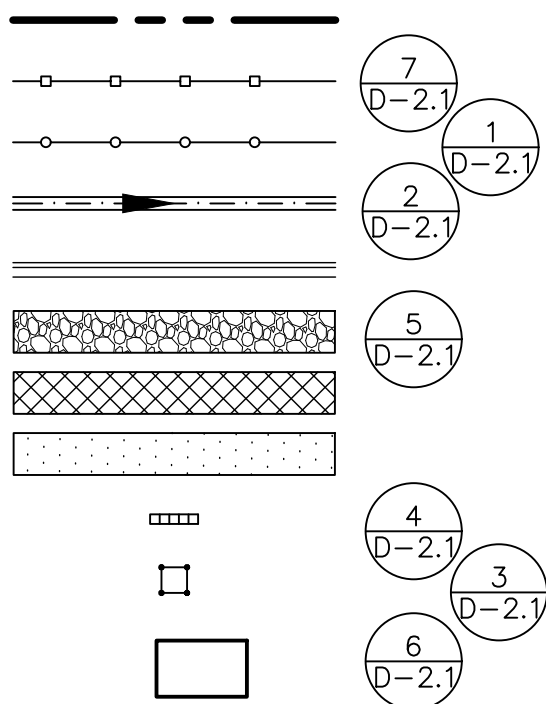


SEE BELOW FOR CONTINUATION

SEE ABOVE FOR CONTINUATION

LEGEND:

- PROPERTY BOUNDARY
- TEMPORARY CONSTRUCTION FENCE
- SILT FENCE
- TEMPORARY GRASS SWALE
- CONCRETE CURB AND GUTTER
- STABILIZED CONSTRUCTION ENTRANCE
- WHEEL WASH
- LAYDOWN/STAGING AREA
- ROCK CHECK DAM
- TEMPORARY INLET PROTECTION
- TESC POND



SEQUENCE OF CONSTRUCTION

1. HOLD A PRE-CONSTRUCTION MEETING WITH CITY AND OBTAIN REQUIRED PERMITS.
2. ESTABLISH LIMITS OF DISTURBANCE.
3. CONSTRUCT SILT FENCING AND CONSTRUCTION FENCING ON-SITE. INSTALL INLET PROTECTION FOR EXISTING CATCH BASINS.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
5. CONSTRUCT TEMPORARY SEDIMENT POND.
6. CONTACT CITY AND COORDINATE AN EROSION CONTROL INSPECTION.
7. BEGIN ROUGH GRADING THE SITE.
8. CONSTRUCT THE INTERCEPTOR SWALES WITH APPROPRIATE OUTFALL STRUCTURES. INTERCEPTOR SWALES ARE TO SLOPE TOWARD POND WITH ROCK CHECK DAMS SPACED SUCH THAT THE TIP OF THE DOWNSTREAM DAM IS NO LOWER THAN THE BOTTOM OF THE NEXT UPSTREAM DAM.
9. ONCE SWALES ARE OPERATIONAL, ALL STORMWATER SHOULD BE DIRECTED TO SWALES.
10. INSTALL RIP RAP AROUND TEMPORARY INLET AND OUTLET STRUCTURES.
11. CONTACT CITY AND COORDINATE AN EROSION CONTROL INSPECTION.
12. CLEAR AND GRUB THE SITE AS CONSTRUCTION ACTIVITIES REQUIRE.
13. TEMPORARILY SEED EXPOSED AREAS.
14. CONSTRUCT STORM DRAINAGE SYSTEM. CONTACT CITY AND COORDINATE AN INSPECTION PRIOR TO BURIAL OF UNDERGROUND UTILITIES.
15. PREPARE BUILDING PADS AS SHOWN.
16. COMPLETE GRADING AND OTHER CONSTRUCTION AND STABILIZE THE SITE. CONTACT CITY AND COORDINATE AN INSPECTION AFTER THE SITE HAS BEEN FULLY STABILIZED.

SEDIMENT POND ALTERNATIVE

1. THE CITY OF MUKILTEO HAS REQUESTED A SEDIMENT TREATMENT ALTERNATIVE DURING CONSTRUCTION DUE TO APPARENT GROUNDWATER SEEPAGE AT THE SURFACE.
2. IF DURING CONSTRUCTION GROUNDWATER SEEPAGE IS VISUALLY APPARENT, THEN THE CONTRACTOR AND THE PROJECT'S CESCL SHALL IMPLEMENT AN ALTERNATIVE PLAN THAT INCLUDES TEMPORARY PUMPS AND STORAGE TANKS FOR SEDIMENT TREATMENT PRIOR TO RELEASE FROM THE SITE.
3. ANY ALTERNATIVE SEDIMENT CONTROLS SHALL MEET THE REQUIREMENTS OF THE CITY OF MUKILTEO AND THE WASHINGTON STATE DEPARTMENT OF ECOLOGY PERMIT REQUIREMENTS.



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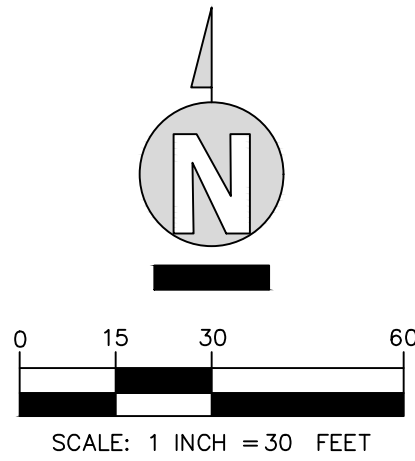
PACIFIC SEAFOOD
PROCESSING FACILITY
8007 44TH AVE W
MUKILTEO, WA 98274

T.E.S.C. AND DEMOLITION PLAN

D-2.0

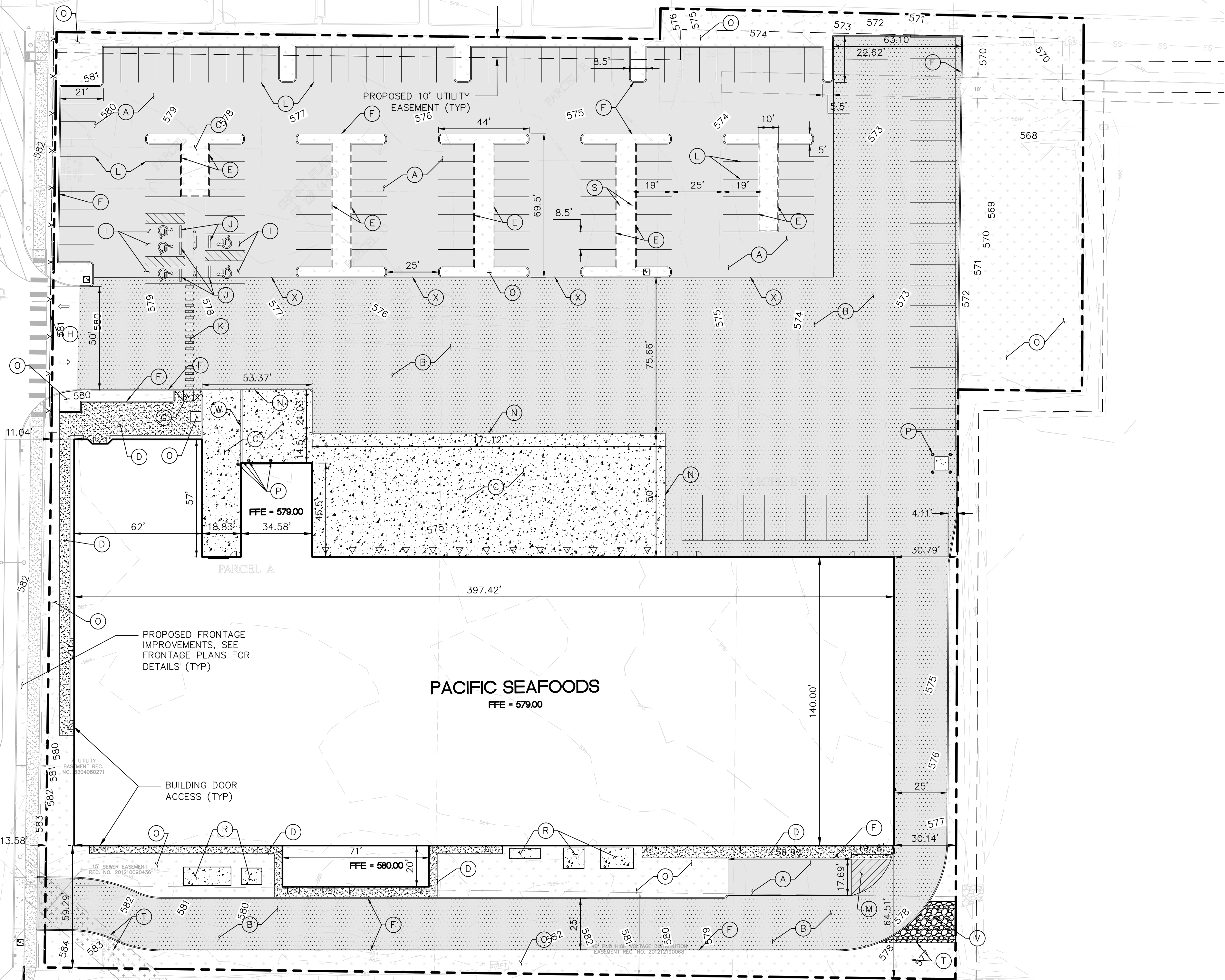
No. Date By Revision Description

Issue Date:	09/16/2016	Project No.	50530001
Designed By:	JWT/SNG/TW	Drawn By:	SNG/TW
Drawn By:	SNG/TW	Checked By:	JUV
Permit:	PERMIT		



80TH ST SW

44TH AVE W



LEGEND:

PROPERTY BOUNDARY	---
PROPOSED BUILDING	---
SAWCUT LINE	---
CONCRETE VERTICAL CURB	---
CONCRETE CURB BREAK	---
STANDARD ASPHALT PAVEMENT	---
CONCRETE PAVEMENT	---
LANDSCAPE AREA	---
CONCRETE SIDEWALK	---
GRAVEL ROAD	---

SITE KEY:

- (A) STANDARD DUTY ASPHALT PAVEMENT
- (B) HEAVY DUTY ASPHALT PAVEMENT
- (C) CONCRETE PAVEMENT
- (D) CONCRETE SIDEWALK
- (E) CONCRETE CURB BREAK
- (F) CONCRETE VERTICAL CURB
- (G) PERPENDICULAR ADA RAMP PER SWDOT STD PLAN F-40.15-02
- (H) ENTRANCE GATE PER ARCHITECTS PLANS
- (I) ADA PARKING STALL AND SIGN
- (J) CONCRETE WHEEL STOPS
- (K) CROSSWALK PER SWDOT STD PLAN M-15.10-01, SEE SHEET CH-1.1
- (L) 4" WIDE SOLID WHITE PAINT STRIPING (TYP)
- (M) 4" WIDE SOLID WHITE PAINT STRIPING, 45° @ 18" O.C. (TYP)
- (N) ASPHALT TO CONCRETE PAVEMENT TRANSITION
- (O) LANDSCAPING. SEE LANDSCAPE PLANS.
- (P) CONCRETE BOLLARD (TYP)
- (Q) PRECAST CONCRETE WHEEL STOP
- (R) CONCRETE EQUIPMENT PAD. SEE STRUCTURAL PLANS.
- (S) 2' VEHICLE OVERHANG ALLOWANCE (TYP)
- (T) FUTURE SNOHOMISH CO. P.U.D. UTILITY POLE WITH BOLLARD PROTECTION(TYP)
- (U) ROCKERY. SEE GRADING PLAN.
- (V) GRAVEL ROAD FOR SNOHOMISH CO. P.U.D. MAINTENANCE ACCESS
- (W) CAST-IN-PLACE WALL. SEE STRUCTURAL PLANS.
- (X) HEAVY DUTY TO STANDARD DUTY PAVEMENT TRANSITION



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SITE AND PAVING IMPROVEMENTS

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Designed By:	Issue Date:	No.	Date	By	Revision	Description
JWT/SNG/TW	09/16/2016					
Drawn By:						
SNG/TW						
Checked By:						
JW						
Project No.						
50530001						

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.

- GENERAL NOTES (CITY OF MUKILTEO)

1. MATERIAL THICKNESS IS COMPACTED DEPTH. APPLIES TO ALL SECTIONS.

- NTS



C-1.1

80TH ST SW

44TH AVE W

PACIFIC SEAFOODS
FFE = 579.00

FOOTING DRAIN TO BE LOCATED
ON WEST AND SOUTH SIDES OF
BUILDING PER DETAIL 2, SHEET
C-2.3. CONNECT OUTLETS TO
DOWNSTREAM CATCH BASINS AT
EASTERN SIDE OF SITE

6" ROOF AND LANDSCAPING
AREA COLLECTION SYSTEM
DIRECTED TO VAULT (TYP)

FFE = 580.00

STORMWATER DETENTION VAULT
WITH OPEN BOTTOM
TWO BAYS: 20'(W) X 120'(L) X 10.0' (H)

BIOFILTRATION PARKING AREA SWALE PER
DETAIL 3, SHEET C-2.3 (TYP)

3' BERM

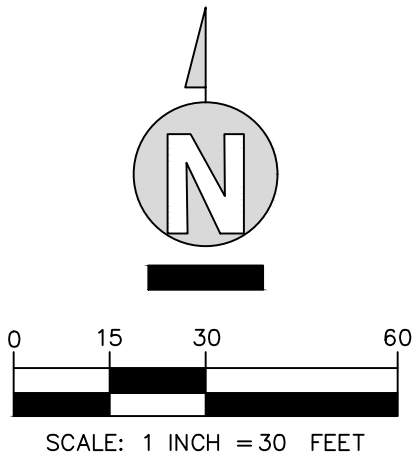
BIOFILTRATION SWALE

FLOW LEVEL SPREADER
1' WIDE W/ 1" CLEAN
GRAVEL

BIOFILTRATION SWALE INLET
CHAMBER ENERGY
DISSIPATION AREA 1.0'
BELOW SWALE GRADE.
SURFACE

LEGEND:

- PROPERTY BOUNDARY
STORM PIPE
BIOFILTRATION SWALE
TYPE I CATCH BASIN
TYPE II CATCH BASIN
AREA DRAIN
PRECAST DETENTION VAULT



STRUCTURE SCHEDULE

#	DESCRIPTION	#	DESCRIPTION
1	EXT. CB TYPE 2 RIM = 568.77 12" IE = 555.67 (N) 12" IE = 555.77 (S) 6" IE = 564.57 (W,E) NEW 12" IE 555.77 (S)	16	CB TYPE 1 RIM = 574.52 12" IE = 571.41
2	CB TYPE 2-48" RIM = 569.75 12" IE = 555.97	17	CB TYPE 1 RIM = 577.63 12" IE = 574.25
3	VAULT 5.83' X 11' ACCESS GRATE AND OUTLET STRUCTURE RIM = 572.90 12" IE = 557.00	18	CB TYPE 1 RIM = 573.92 4" IE = 571.36 12" IE = 570.69
4	VAULT INLET AND ACCESS LID RIM = 572.69 12" IE = 557.90	19	CB TYPE 1 RIM = 574.75 12" IE = 571.04
5	CB TYPE 2-48" RIM = 571.00 12" IE = 563.50	20	CB TYPE 1 RIM = 574.75 12" IE = 571.32
6	CB TYPE 1 RIM = 569.61 12" IE = 565.50	21	CB TYPE 1 RIM = 574.75 12" IE = 571.75
7	BIOFILTRATION SWALE OUTLET CB WITH BEEHIVE GRATE RIM = 568.00 12" IE = 566.00	22	CB TYPE 1 RIM = 577.20 12" IE = 573.92
8	BIOFILTRATION SWALE INLET 12" IE = 568.60	23	CB TYPE 1 RIM = 578.26 6" IE = 575.30 12" IE = 574.80
9	CB TYPE 1 RIM = 572.00 12" IE = 568.69	24	CB TYPE 1 RIM = 574.17 12" IE = 571.17
10	CB TYPE 1 RIM = 572.00 12" IE = 569.50	25	CB TYPE 1 RIM = 577.42 12" IE = 572.79
11	CB TYPE 1 RIM = 572.56 12" IE = 568.80	26	CB TYPE 1 RIM = 577.45 12" IE = 573.12
12	CB TYPE 1 RIM = 574.44 12" IE = 569.18	27	CB TYPE 1 RIM = 578.97 12" IE = 575.46
13	CB TYPE 1 RIM = 572.55 12" IE = 569.67	28	CB TYPE 1 RIM = 581.20 12" IE = 576.40
14	CB TYPE 1 RIM = 573.34 12" IE = 570.02	29	CB TYPE 1 RIM = 577.98 12" IE = 575.48
15	CB TYPE 1 RIM = 573.34 12" IE = 570.37	30	CB TYPE 1 RIM = 579.63 12" IE = 575.63
		31	CB TYPE 1 RIM = 580.91 12" IE = 577.91

PIPE SCHEDULE

PIPE #	DIAMETER	LENGTH (FT.)	SLOPE (FT./FT.)	PIPE #	DIAMETER	LENGTH (FT.)	SLOPE (FT./FT.)
1	12" CPEP	40	.0050	15	12" CPEP	69	.0274
2	12" CPEP	172	.0072	16	12" CPEP	69	.0050
3	12" CPEP	28	.0238	17	12" CPEP	55	.0050
4	12" CPEP	88	.0227	18	12" CPEP	85	.0050
5	12" CPEP	21	.2000	19	12" CPEP	105	.0207
6	12" CPEP	18	.0050	20	12" CPEP	44	.0200
7	12" CPEP	88	.0100	21	12" CPEP	20	.0240
8	12" CPEP	16	.0050	22	12" CPEP	135	.0120
9	12" CPEP	75	.0050	23	12" CPEP	65	.0051
10	12" CPEP	97	.0050	24	12" CPEP	232	.0100
11	12" CPEP	69	.0050	25	12" CPEP	92	.0102
12	12" CPEP	69	.0050	26	12" CPEP	20	.1180
13	12" CPEP	69	.0150	27	12" CPEP	17	.0100
14	12" CPEP	71	.0400	28	12" CPEP	16	.0944



Revision Description

By

Date

No.

Issue Date:
09/16/2016

Designed By:
JMT/SNG/TW

Drawn By:
SNG/TW

Checked By:
JMT

Project No.
50530001

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bellevue, wa 98004

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PROCESSING FACILITY
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DRAINAGE PLAN

C-2.0

80TH ST SW

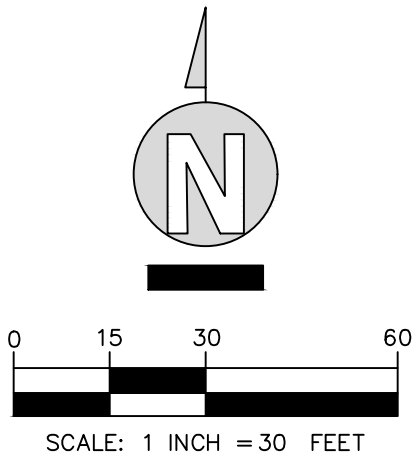
44TH AVE W

PACIFIC SEAFOODS
FFE = 579.00

FFE = 580.00

LEGEND:

- PROPERTY BOUNDARY
- BIOFILTRATION SWALE
- TYPE I CATCH BASIN
- TYPE II CATCH BASIN
- AREA DRAIN
- PRECAST DETENTION VAULT
- SLOPE
- SPOT ELEVATION:
HP = HIGH POINT
LP = LOW POINT



GRADING NOTES: (NAVIX)

- THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SHEET ARE BASED UPON THE SURVEY PREPARED BY TERRANE, INC. (FORMERLY GEODIMENSIONS INC.), DATED 02/12/16. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED SITEWORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITEWORK WHICH WOULD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- CAUTION - NOTICE TO CONTRACTOR**
THE CONTRACTOR IS SPECIFICALLY CAUTIONED AT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- THE SPOT ELEVATIONS INDICATED ON THIS PLAN REPRESENT THE DESIGN TOP OF PAVEMENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- ALL LAWN AREAS SHALL RECEIVE 4 INCHES OF TOPSOIL AND ALL OTHER LANDSCAPED AREAS SHALL RECEIVE 6 INCHES OF TOPSOIL PER LANDSCAPING SPECIFICATIONS. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS WITH GRASS IN ACCORDANCE WITH LOCAL SPECIFICATION UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- ALL CUT AND FILL SLOPES SHALL BE CONSTRUCTED PER THE UBC CODE AND APPLICABLE LOCAL REGULATION. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS AND SHALL GRADE ALL AREAS TO PRECLUDE PONDING OF WATER.
- ALL POLLUTANTS OTHER THAN SEDIMENT ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- PROPERTIES AND WATERWAYS DOWNSTREAM OF THE SITE SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FROM PROJECT SITE.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- CONTRACTOR TO REMOVE UNSUITABLE SOILS LOCATED WITHIN THE BUILDINGS SPLAY LINE OF THE FOOTINGS.
- FOR BOUNDARY AND TOPOGRAPHIC INFORMATION REFER TO PROJECT SURVEY.
- FOR LAYOUT INFORMATION REFER TO THE SITE PLAN.

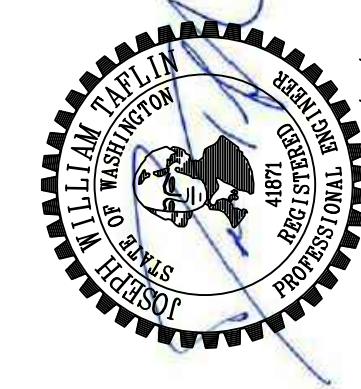


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FINISHED GRADING PLAN

C-21



Designed By:	Issue Date:	No.	Date	By	Revision	Description
JWT/SNG/TW	09/16/2016					
Drawn By:						
SNG/TW						
Checked By:						
JW						
Project No.						
50530001						

ARFA DRAIN

NTS

1

Know what's **below**.
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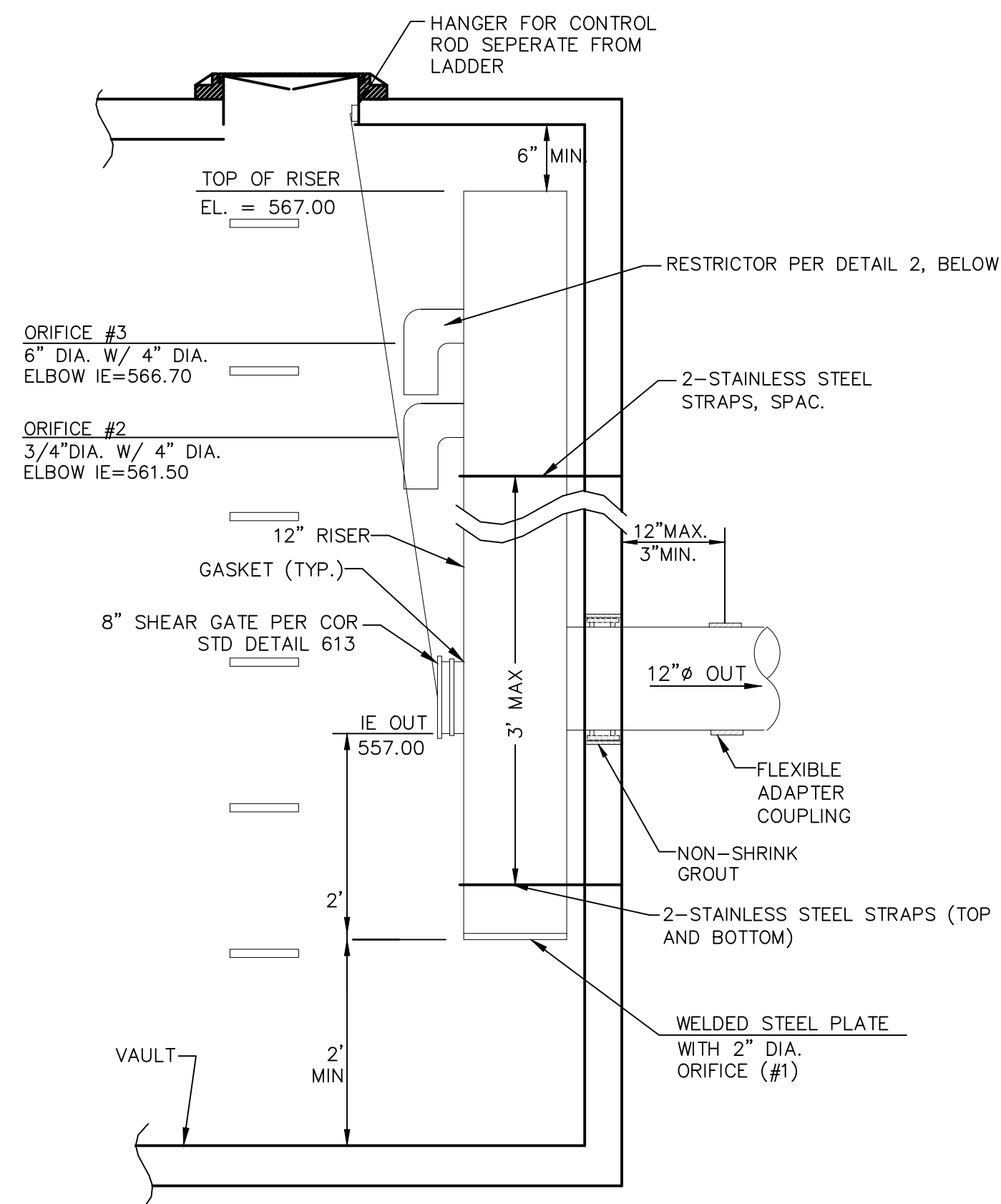
C-2.2



STORM DRAINAGE NOTES: (NAVIX)

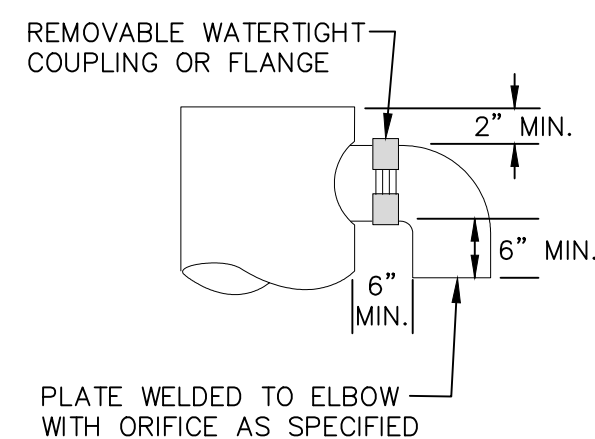
SW 1/4 OF SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

1. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SHEET ARE BASED UPON THE SURVEY PREPARED BY TERRANE, INC. (FORMERLY GEDDIMENSIONS INC.), DATED 02/12/16. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED SITEWORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITEWORK WHICH WOULD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
2. CAUTION – NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE MOST CURRENT APPLICABLE LOCAL, STATE, AND FEDERAL STANDARDS.
4. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
5. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
6. STORM DRAINAGE PIPE WITH LESS THAN 2'-0" COVER SHALL BE CLASS IV REINFORCED CONCRETE PIPE, OR APPROVED EQUAL TO SUSTAIN H=20 LOADING.
7. ALL ONSITE STORM DRAINAGE PIPE SHALL BE SMOOTH WALLED INTERIOR, MANUFACTURER'S VERIFICATION OF MANNING'S ROUGHNESS COEFFICIENT $n=0.012$ OR LESS.
8. PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION.
9. ALL CATCH BASINS AND AREA DRAINS ARE TO BE SITUATED SUCH THAT THE OUTSIDE EDGE OF GRATE FRAME IS AT TOE OF CURB OR FLOW LINE OF GUTTER (WHERE APPLICABLE).
10. CATCH BASIN INLET PROTECTION / EROSION CONTROL TO BE USED FOR ALL NEW INLETS.
11. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
12. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING AND COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
11. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT, UNLESS OTHERWISE SHOWN IN THE CATCH BASIN DETAIL.
12. CONTRACTOR SHALL CONNECT ROOF DRAIN LEADERS TO PROPOSED STORM DRAINS AS SHOWN.



VAULT CONTROL STRUCTURE

NTS



ELBOW RESTRICTOR DETAIL

NTS



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No.	Date	By	Revision Description

Designed By:	JWT/SNG/TYW	Issue Date:	09/16/2016
Drawn By:	SNG/TYW	Project No.	50530001
			JJV



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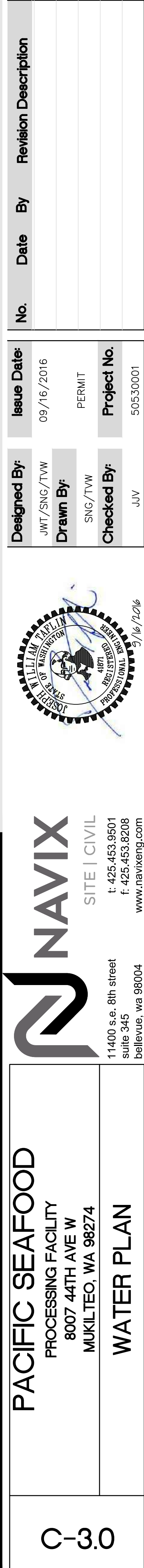
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DRAINAGE NOTES AND DETAILS

C-2.4



80TH ST SW

44TH AVE W

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FFE = 579.00

FFE = 580.00

LEGEND:

- PROPERTY BOUNDARY
- SANITARY SEWER PIPE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SANITARY SEWER OIL/WATER SEPARATOR

SANITARY SEWER SCHEDULE

1	SANITARY SEWER CLEANOUT CONNECT TO BUILDING PLUMBING RIM = XXX.XX IE = XXX.XX
2	OIL/WATER SEPARATOR RIM = XXX.XX IE = XXX.XX
3	SANITARY SEWER CLEANOUT RIM = XXX.XX IE = XXX.XX 28 LF 6" PVC SDR 35 WW @ 2.00% MIN.
4	SANITARY SEWER CLEANOUT CONNECT TO BUILDING PLUMBING RIM = XXX.XX IE = XXX.XX
5	SANITARY SEWER CLEANOUT CONNECT TO BUILDING PLUMBING RIM = XXX.XX IE = XXX.XX
6	54 LF 6" PVC SDR 35 WW @ 2.00% MIN.
7	SANITARY SEWER MH RIM = XXX.XX IE = 573.45 (IN) IE = 573.35 (OUT)
8	SANITARY SEWER CLEANOUT CONNECT TO BUILDING PLUMBING RIM = XXX.XX IE = XXX.XX
9	54 LF 6" PVC SDR 35 WW @ 2.00% MIN.
10	SANITARY SEWER WYE IE = 573.25 (8") IE = 573.33 (6")
11	158 LF 8" PVC SDR 35 WW @ 1.00%
12	SANITARY SEWER MH--SADDLE AT EXISTING MAIN. CONTRACTOR TO FIELD VERIFY RIM = XXX.XX IE = 571.77±

APPROVED BY: _____
MUKILTEO WATER AND WASTEWATER _____ DATE _____

MUKILTEO WATER AND WASTEWATER DISTRICT EXTENSION NO. _____

GRAY & OSBORNE NO. _____

PROJECT MUST BE COMPLETED AND OWNERSHIP TRANSFERRED TO THE MUKILTEO WATER AND WASTEWATER DISTRICT WITHIN 1 YEAR FROM THE DATE OF APPROVAL. IN THE EVENT THAT THE PROJECT DEVELOPER FAILS TO DO SO, THE PROJECT WILL BE SUBJECT TO REAPPLICATION, ADDITIONAL PLAN REVIEW AND REVISION, DUE TO ANY CHANGES IN DISTRICT STANDARDS OR REQUIREMENTS OCCURRING PRIOR TO COMPLETION AND TRANSFER OF OWNERSHIP. WATER/SEWER SERVICE IS AVAILABLE ONLY AFTER PAYMENT OF ALL CURRENT FEES, RECORDING OF EASEMENTS AND TRANSFER OF OWNERSHIP TO THE DISTRICT.



Know what's below.
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SEWER PLAN



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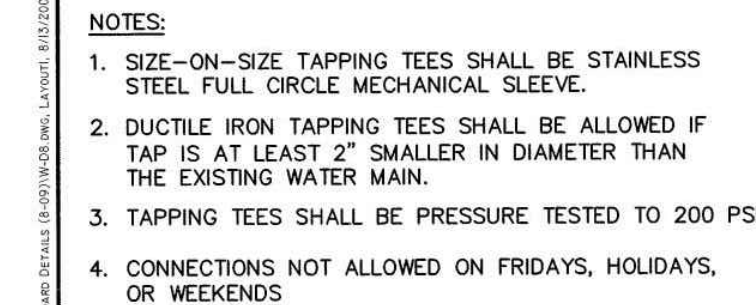
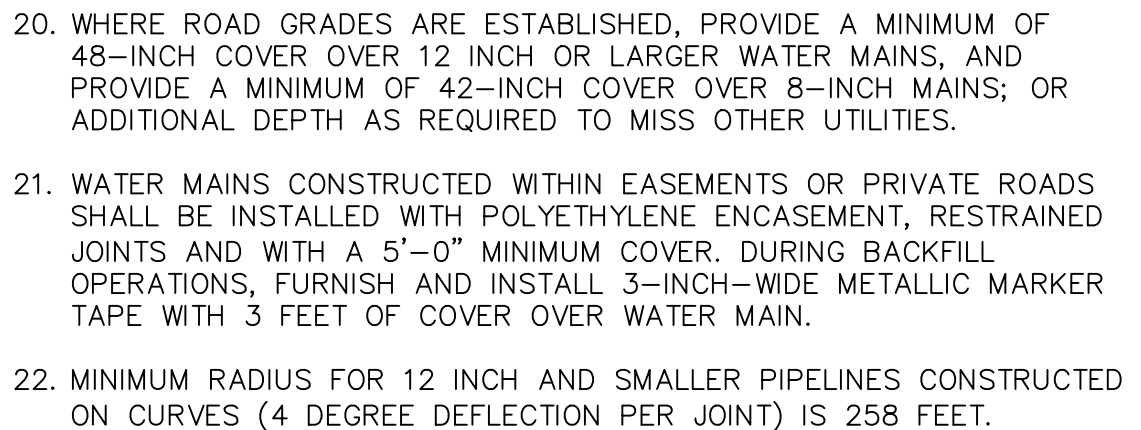
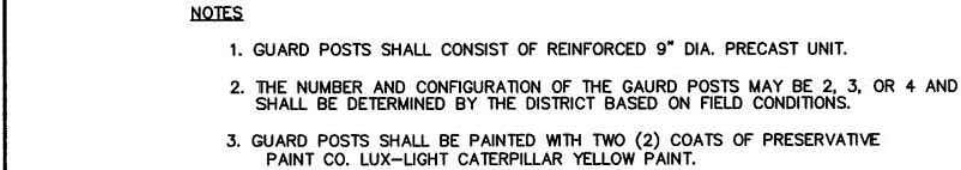


Designed By:	Issue Date:
JWT/SNG/TW	09/16/2016
Drawn By:	Project No.
SNG/TW	50530001
Checked By:	Permit
JUV	PERMIT

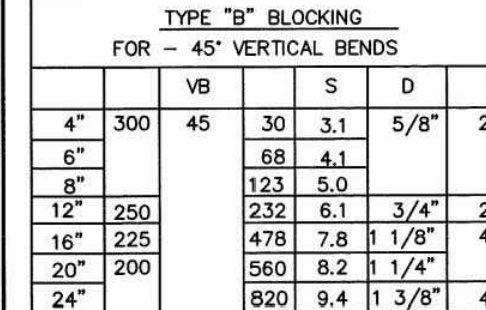
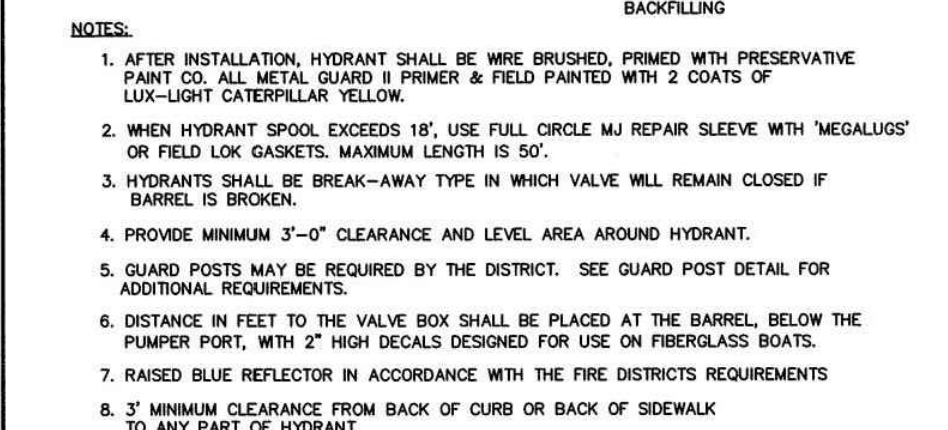
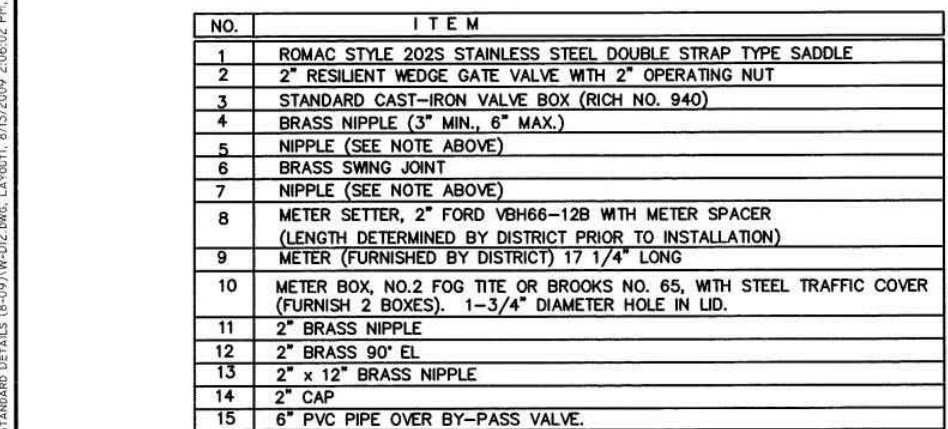
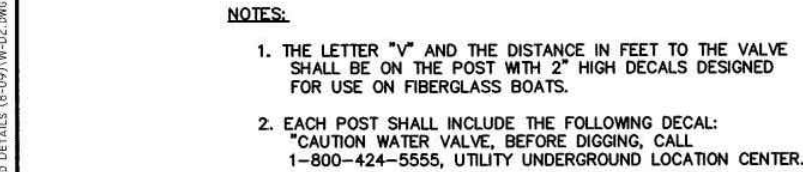
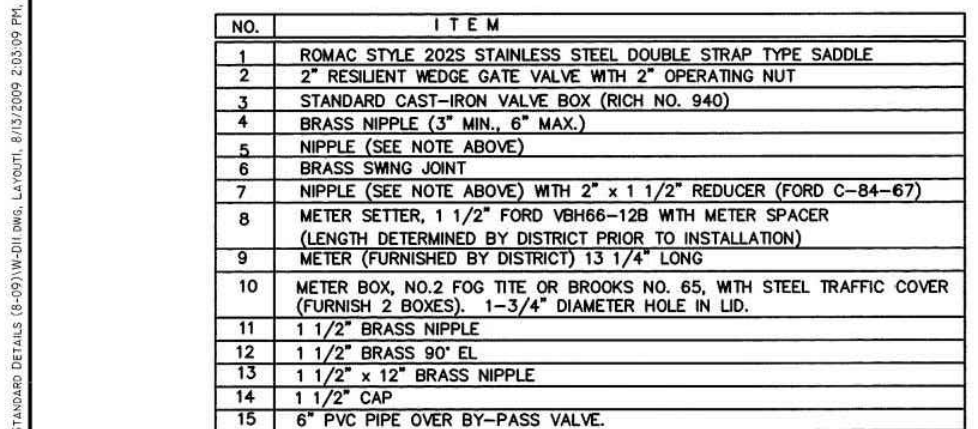
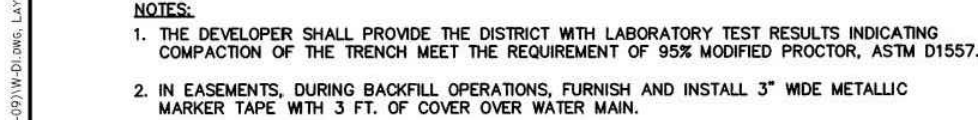
No. Date By Revision Description

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE MUKILTEO WATER AND WASTEWATER DISTRICT. THE DEVELOPER, CONTRACTOR AND PROPOSED ON-SITE SUPERVISORS SHALL ATTEND.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE MUKILTEO WATER AND WASTEWATER DISTRICT DEVELOPER STANDARDS. CONTRACTOR TO HAVE MUKILTEO WATER AND WASTEWATER DISTRICT STANDARDS ON JOB SITE.
3. NO DISTRICT INSPECTIONS WILL TAKE PLACE AND THE JOB WILL BE SHUT DOWN UNLESS AN APPROVED AND DISTRICT SIGNED COPY OF THESE PLANS ARE ON THE JOB SITE AT ALL TIMES CONSTRUCTION IS IN PROGRESS.
4. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, DISTRICT AND APPROPRIATE PUBLIC AGENCIES.
5. NOTIFY THE DISTRICT 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
6. THE DISTRICT SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO THE TIME THE DEVELOPER WOULD LIKE TO CONNECT TO EXISTING MAINS OR FOR INSTALLATION OF TAPPING TEES. THE CONNECTION SHALL BE DONE IN ACCORDANCE WITH DISTRICT REQUIREMENTS. CONNECTIONS TO TAKE PLACE TUESDAYS THROUGH THURSDAYS ONLY. DEVELOPER SHALL NOT OPERATE ANY DISTRICT VALVES; THESE WILL BE OPERATED BY WATER DISTRICT PERSONNEL ONLY.

3. FOR AID IN UTILITY LOCATION, CALL 1-800-424-5555, A MINIMUM OF 48 HOURS (2 WORKING PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
8. WATER LINE CONSTRUCTION WITHIN THE PROPOSED DEVELOPMENT SHALL NOT COMMENCE UNTIL THE STREET HAS BEEN BROUGHT TO SUB-GRADE, MEETING MUKILTEO WATER DISTRICT APPROVAL.
9. WATER MAIN SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION, WITH 25-FOOT STAKES ON LOT CORNER STAKES SHALL ALSO BE IN PLACE PRIOR TO CONSTRUCTION.
10. PIPE SHALL BE DUCTILE IRON, AWWA CLASS 52 THICKNESS, WITH RUBBER GASKETS, PUSHON TYPE, OR MECHANICAL JOINT, MEETING AWWA SPECIFICATIONS. FITTINGS SHALL BE AWWA, CEMENT LINED, DUCTILE IRON, AND EITHER MECHANICAL JOINT OR FLANGED, AS INDICATED HEREIN. ALL PIPE TO BE PURCHASED AND INSTALLED AS PART OF THE DEVELOPER'S WATER SYSTEM SHALL BE DELIVERED TO THE JOB SITE WITH WATER TIGHT WRAPPING OR PIPE PLUGS. PLUGS AND/OR WRAPPING SHALL REMAIN IN PLACE UNTIL THE PIPE IS INSTALLED IN THE TRENCH.
11. UNLESS OTHERWISE SPECIFIED VALVES 12 INCH AND SMALLER SHALL BE DUCTILE IRON RESILIENT SEATED GATE VALVES; ACCEPTABLE VALVES ARE MUELLER, CLOW, M&H, U.S. PIPE AND AMERICAN FLOW CONTROL, SERIES 2500. VALVES LARGER THAN 12 INCHES SHALL BE DUCTILE IRON BUTTERFLY VALVES; ACCEPTABLE VALVES ARE PRATT GROUNDHOG AND DRESSER 450.
12. ALL BOLTS ON WATER WORKS FITTINGS SHALL BE COATED WITH ARMIT ANTI-SEIZE COMPOUND NO. 609, OR EQUAL, PRIOR TO INSTALLATION. ALL WATER WORKS FITTINGS AND BOLTED ASSEMBLIES SHALL BE COMPLETELY COVERED WITH VISQUEEN PLASTIC, 4 MIL. THE END OF THE PLASTIC SHALL BE TAPED TO SECURE THEM TO THE PIPE.
13. HYDRANTS SHALL BE MUELLER CENTURIUM A-423, CLOW MEDALLION, OR DRESSER RELIANT 929 MEETING AWWA SPECIFICATIONS. HYDRANTS SHALL BE FURNISHED WITH THREADED OUTLETS, MEETING FIRE DISTRICT/DEPARTMENT STANDARDS. BOTH THRUST BLOCKING AND MEGA LUGS RESTRAINTS ARE REQUIRED ON EACH HYDRANT INSTALLATION.
 - * HYDRANTS WITHIN THE CITY OF MUKILTEO FIRE SERVICE AREA AND FIRE DISTRICT #1 SHALL BE EQUIPPED WITH 4-INCH STORZ ADAPTERS; ALL OTHER HYDRANTS SHALL UTILIZE A 5-INCH STORZ ADAPTER. ALL HYDRANTS SHALL HAVE A 4-1/2-INCH NST THREADS ON PUMPER PORT.

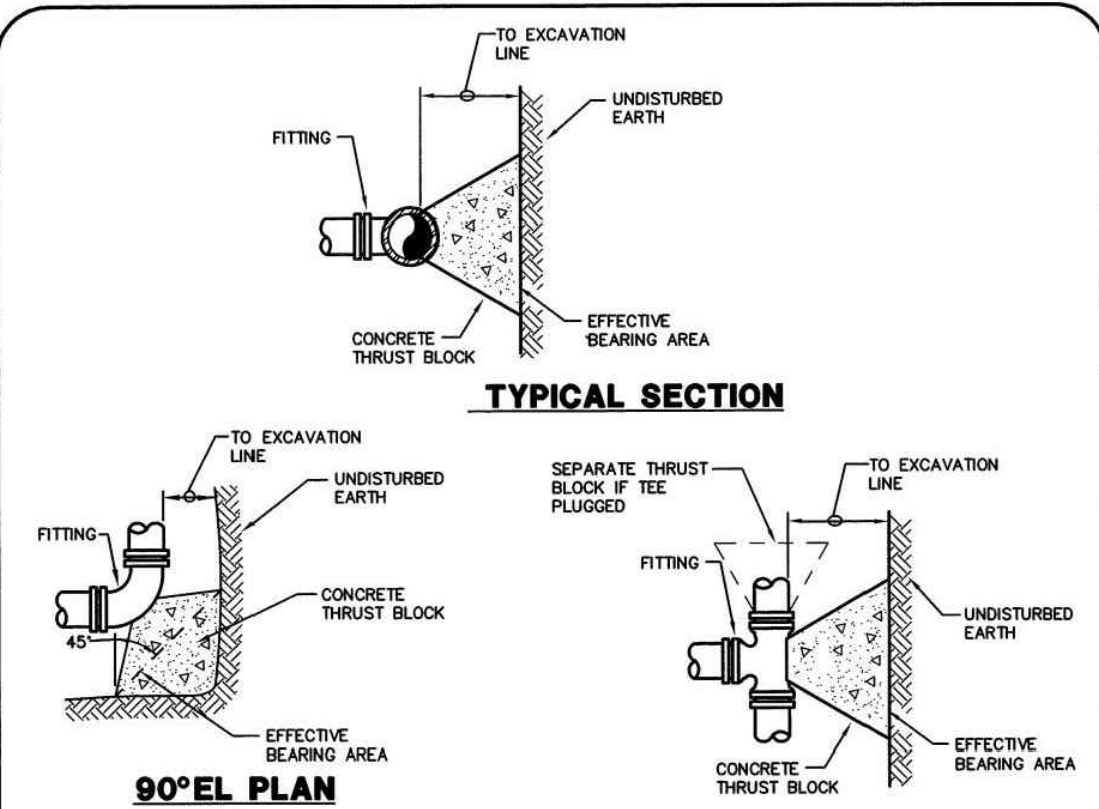


4. PROVIDE THRUST BLOCKING AND/OR RESTRAINED JOINTS AT ALL FITTINGS AND BENDS AND UPSTREAM FITTINGS, IN ACCORDANCE WITH DISTRICT STANDARDS, CONDITIONS AND SPECIFICATIONS.
15. ALL NEW CONNECTIONS TO THE EXISTING WATER SYSTEM SHALL BE IN STRICT CONFORMANCE WITH THE APPROPRIATE SUBSECTIONS OF THE SPECIFICATIONS OF THE DISTRICT. NO CONNECTION SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING MAINS UNTIL THE NEW PIPING HAS BEEN FLUSHED, DISINFECTED, TESTED AND RECEIVED SATISFACTORY BACTERIOLOGICAL TEST RESULTS.
16. INDIVIDUAL WATER SERVICES TO THE PROPERTY LINE SHALL BE 1" DIAMETER MINIMUM SIZE AND BE INSTALLED WITH 36-INCH MINIMUM COVER.
17. RESIDENTIAL FIRE SPRINKLER SYSTEMS SHALL HAVE A MINIMUM 1-INCH METER/SERVICE. BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ON ALL RESIDENTIAL FIRE SPRINKLER SYSTEMS AND LOCATED IMMEDIATELY BEHIND THE WATER METER/SERVICE ON THE PROPERTY SIDE.
18. FIRE LINE SERVICES SHALL HAVE A DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY INSTALLED IN A UTILITY VAULT AT THE ROW/PROPERTY LINE WITH A 6-INCH PVC GRAVITY DRAIN TO STORM. FIRE LINE SERVICE SHALL TERMINATE, IN THE STRUCTURE TO BE SERVED, WITH THE DISTRICT'S RISER DETAIL.
19. ALL COMMERCIAL, MULTI-FAMILY, INDUSTRIAL AND IRRIGATION SERVICES SHALL INCLUDE A DOH APPROVED BACKFLOW PREVENTION ASSEMBLY LOCATED IMMEDIATELY BEHIND AND ON THE PROPERTY SIDE OF THE WATER METER. ALTERNATE LOCATIONS MAY BE ACCEPTABLE UPON APPROVAL BY THE DISTRICT. STRUCTURES REQUIRING FIRE SPRINKLER SYSTEM SHALL HAVE AT LEAST ONE BACKFLOW PREVENTION ASSEMBLY PER EACH STRUCTURE, PROTECTING THE POTABLE WATER SYSTEM FROM THE FIRE SYSTEM. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED IN A FLOOD PROOF VAULT OR SERVICE BOX, DEPENDING ON SIZE, OUTSIDE THE STRUCTURE IN A LOCATION APPROVED BY THE DISTRICT.
20. WHERE ROAD GRADES ARE ESTABLISHED, PROVIDE A MINIMUM OF 48-INCH COVER OVER 12 INCH OR LARGER WATER MAINS, AND PROVIDE A MINIMUM OF 42-INCH COVER OVER 8-INCH MAINS; OR ADDITIONAL DEPTH AS REQUIRED TO MISS OTHER UTILITIES.
21. WATER MAINS CONSTRUCTED WITHIN EASEMENTS OR PRIVATE ROADS SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT, RESTRAINED JOINTS AND WITH A 5'-0" MINIMUM COVER. DURING BACKFILL OPERATIONS, FURNISH AND INSTALL 3-INCH-WIDE METALLIC MARKER TAPE WITH 3 FEET OF COVER OVER WATER MAIN.
22. MINIMUM RADIUS FOR 12 INCH AND SMALLER PIPELINES CONSTRUCTED ON CURVES (4 DEGREE DEFLECTION PER JOINT) IS 258 FEET.
23. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS, WHICH SHALL BE 100%.
24. CONSTRUCTION INSPECTION WILL BE DONE BY MUKILTEO WATER AND WASTEWATER DISTRICT AND/OR THEIR DESIGNATED ENGINEER. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE DISTRICT IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.
25. THE WATER MAIN CONSTRUCTION PHASE WILL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLATION IS ACCEPTABLE TO THE DISTRICT INCLUDING A SATISFACTORY HYDROSTATIC PRESSURE TEST, A SATISFACTORY DISINFECTION TEST, SATISFACTORY FLOW OF SERVICE LINES, AND COMPLETION OF ALL ITEMS ON THE INSPECTOR'S PUNCH LIST.
26. WATER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE DISTRICT AND AFTER PAYMENT OF ALL CURRENT APPLICABLE FEES.



		VB	S	D	
4"	300	45	30 3.1	5/8"	2
6"			68 4.1		
8"			123 5.0		
12"	250		232 6.1	3/4"	2
16"	225		478 7.8	1 1/8"	4
20"	200		560 8.2	1 1/4"	4
24"			820 9.4	1 3/8"	4

- * PIPE CLAMP, WASHERS AND NUTS MAY BE SUBSTITUTED FOR TURN BUCKLES. ALL OTHER SPECIFICATIONS THE SAME.



90° EL PLAN

PIPE SIZE	90° EL	45° EL	22 1/2° EL	11 1/4° EL	TEE
8"	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	2 SQ. FT.	5 SQ. FT.
12"	16 SQ. FT.	9 SQ. FT.	4 SQ. FT.	3 SQ. FT.	11 SQ. FT.
16"	28 SQ. FT.	15 SQ. FT.	8 SQ. FT.	5 SQ. FT.	20 SQ. FT.

TYPICAL FOR SANDY SOIL WITH 2,000 P.S.F. BEARING STRENGTH & 200 P.S.I. PRESSURE. IF PRESSURE IS GREATER OR SOIL BEARING IS LESS, THE THRUST BLOCK SIZE SHALL BE INCREASED.

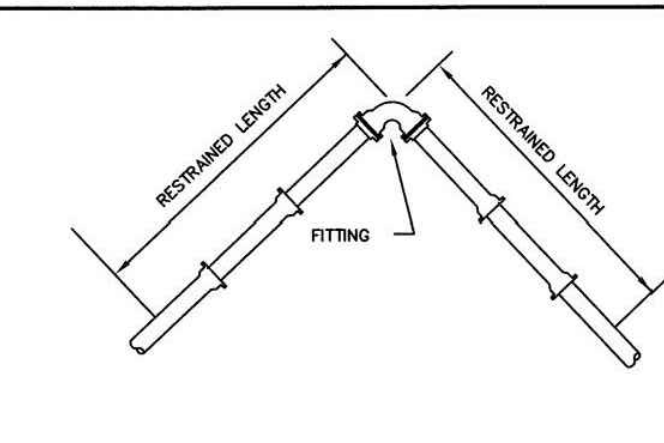
- NOTES:
- BLOCKING SHALL BE TO SOLID BEARING SURFACE.
 - ALL FITTINGS SHALL BE COVERED WITH 4 MIL VISQUEEN BEFORE CONCRETE IS POURED.
 - CONCRETE BLOCKING SHALL BE 2000 PSI MINIMUM CONCRETE POURED IN PLACE. ALL BLOCKS ON TEES SHALL BE SEPARATED FOR DIRECTION OF THRUST.
 - THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE SIZE OF ALL THRUST BLOCKS BASED ON EXISTING AND LOCAL CONDITIONS.

THRUST BLOCKING

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D15



PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE OR DEAD END CAP
4"	32	14	7	3	26
6"	44	19	9	5	32
8"	58	24	12	6	43
10"	70	29	14	7	54
12"	82	34	16	8	66
16"	106	44	21	11	88
18"	116	48	23	12	100

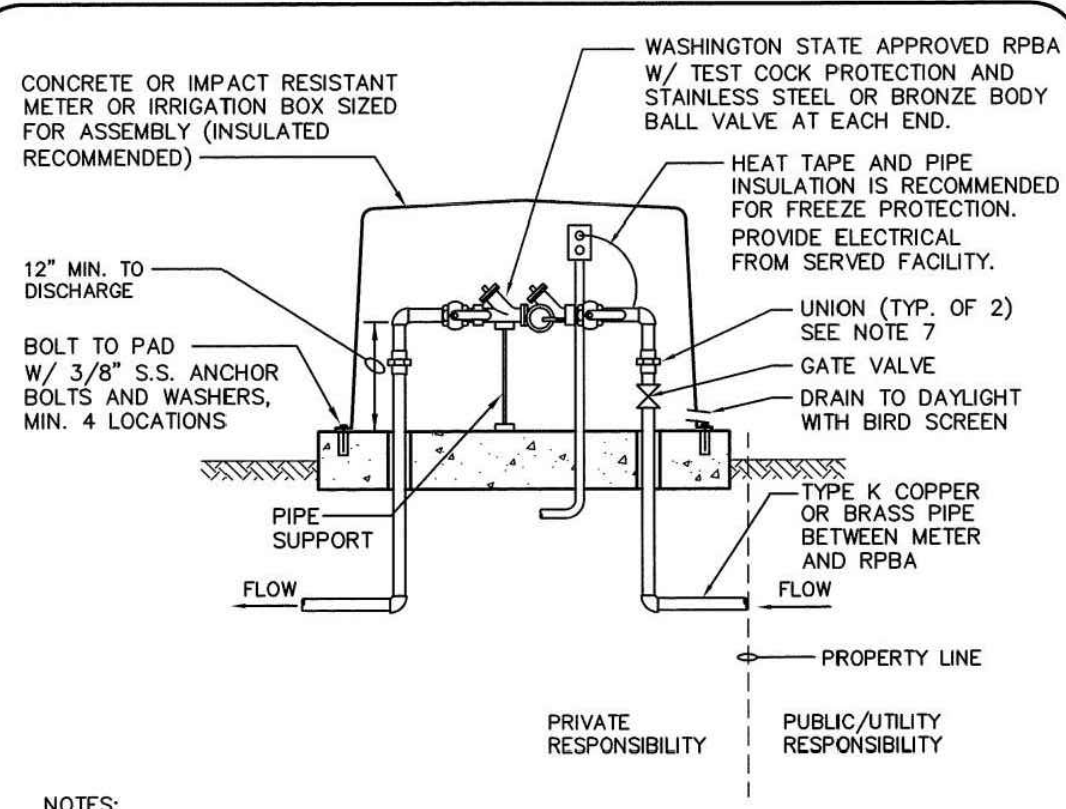
- NOTES:
- RESTRAINED LENGTHS SHOWN ARE MINIMUM AND FOR LINEAL FEET REQUIRED ON EACH SIDE OF FITTING INDICATED.
 - FOOTINGS ARE BASED ON 200 PSI PRESSURE AND 42 INCHES COVER. IF PRESSURE IS GREATER OR COVER IS LESS, THE RESTRAINED LENGTH SHALL BE INCREASED.
 - THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE LENGTH OF ALL RESTRAINED JOINT BASED ON EXISTING AND LOCAL CONDITIONS.

THRUST RESTRAINT FOR DUCTILE IRON PIPE

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D16



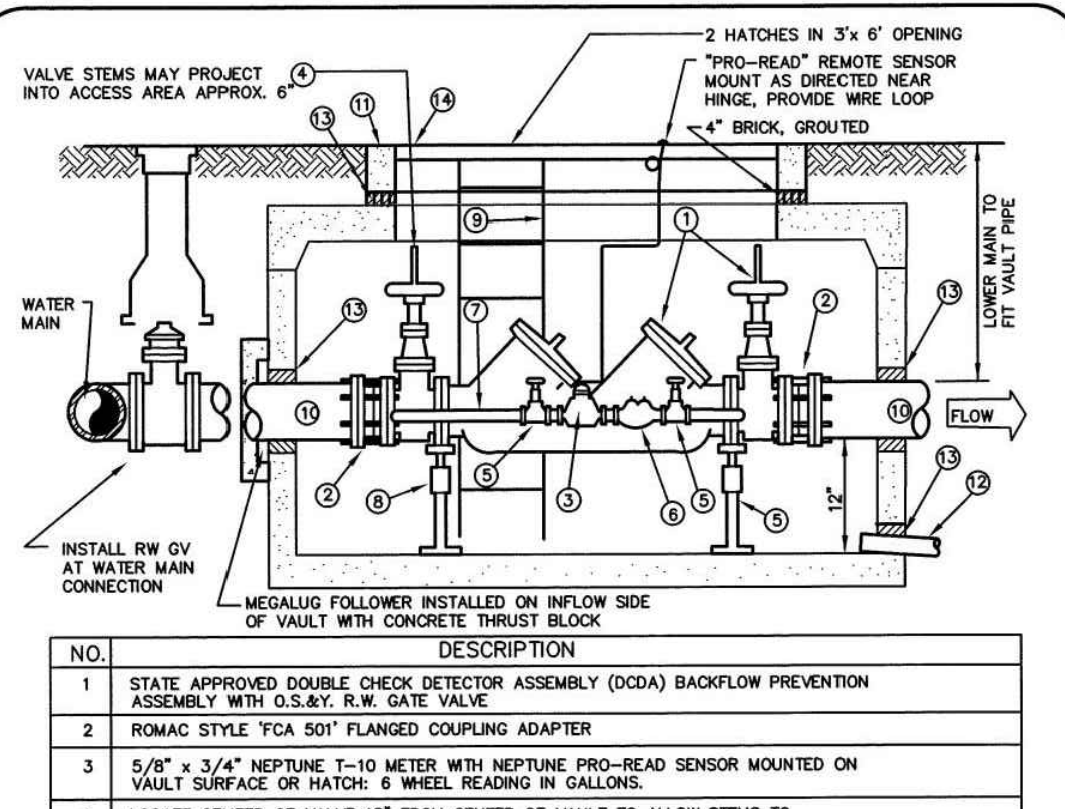
- NOTES:
- BACKFLOW ASSEMBLY SHALL BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH CURRENT APPROVED LIST.
 - CONCRETE TO BE 2500 PSI MIX WITH AIR ENTRAINMENT.
 - COMPLETE ALL WORK IN ACCORDANCE WITH STATE, DISTRICT AND MANUFACTURER STANDARDS.
 - SYSTEM SHALL NOT BE PUT INTO SERVICE UNTIL RPBA IS APPROVED BY THE DISTRICT AND TESTED/CERTIFIED BY A WASHINGTON STATE LICENSED TESTER.
 - RPBA IS CONSIDERED PART OF THE PRIVATE SYSTEM AND SHALL BE MAINTAINED BY THE PROPERTY OWNER WITH ANNUAL CERTIFICATION REQUIRED.
 - PRESSURE TEST AND DISINFECT PER A.W.W.A. STANDARDS.
 - DIELECTRIC UNIONS SHALL BE USED TO SEPARATE DISSIMILAR MATERIALS.
 - RPBA BOX SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF WATER SERVICE BOX PRIOR TO ANY BRANCH CONNECTIONS WITH NO MORE THAN 1'-2" BETWEEN BOXES.

REDUCED PRESSURE BACKFLOW ASSEMBLY - 3/4" TO 2"

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D26



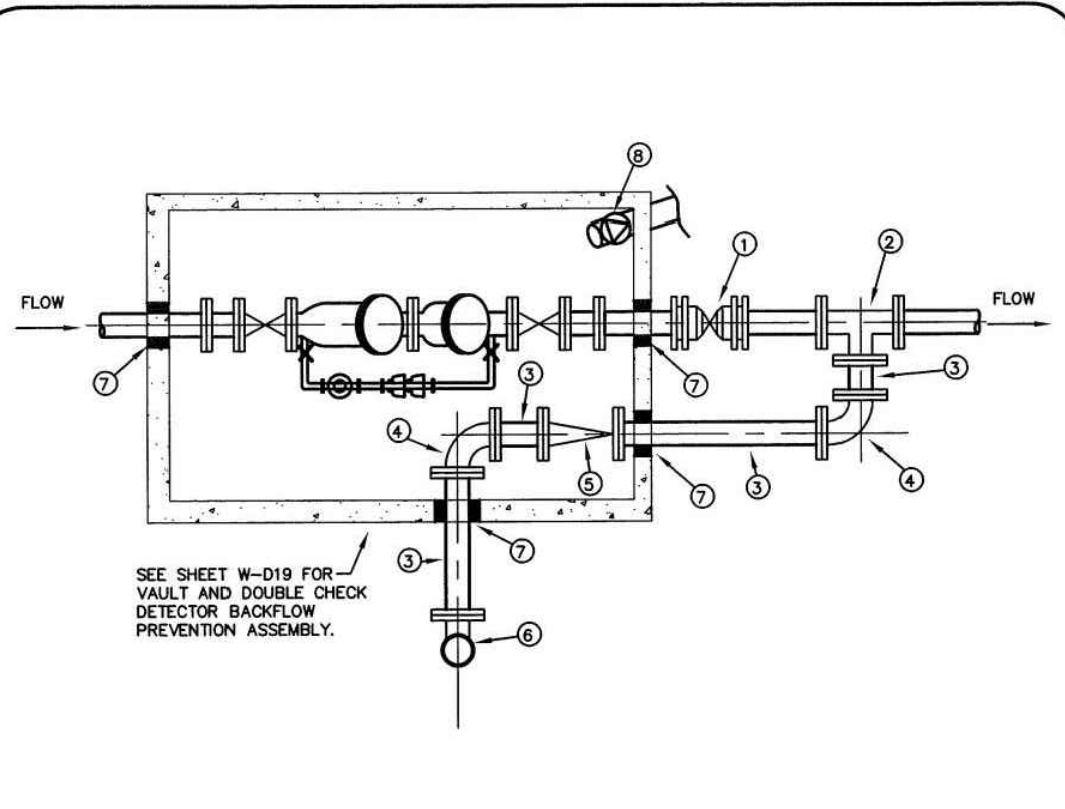
NO.	DESCRIPTION
1	STATE APPROVED DOUBLE CHECK DETECTOR ASSEMBLY (DCCA) BACKFLOW PREVENTION ASSEMBLY WITH O.S.&Y. R.W. GATE VALVE
2	ROMAC STYLE TCA 30T FLANGED COUPLING ADAPTER
3	5/8" x 3/4" NEPTUNE T-10 METER WITH NEPTUNE PRO-READ SENSOR MOUNTED ON VALVE SURFACE OR HATCH 6 WHEEL READING IN GALLONS
4	LOCATE CENTER OF VALVE 15" FROM CENTER OF VALVE TO ALLOW STEMS TO EXTEND INTO ACCESS OPENING WHEN APPLICABLE
5	3/4" SHUTOFF VALVE; BRASS GATE VALVE
6	STATE APPROVED 3/4" DOUBLE CHECK VALVE ASSEMBLY (DCCA)
7	BRASS OR TYPE K COPPER, DETECTOR CHECK PIPING (BY PASS LINE)
8	2 EA. GALVANIZED ADJUSTABLE STANCHIONS (LOCATE AT ENDS OF DOUBLE CHECK ASSEMBLY)
9	GALVANIZED STEEL LADDER, LOCATE AS DIRECTED BY DISTRICT, SECURE TO VALVE
10	PIPE SPOOL, CL. 52 D.I., PLAIN END
11	"UTILITY VAULT" OR APPROVED EQUAL WITH 4" BRICK AND ADJUSTABLE COVER: 2 ACCESS HATCHES: EXCEPT 1 HATCHES FOR 10" DIA. UN PRODUCTS OR EQUAL, H-20 LOADING 4" DCCA, USE 576 LA + 57 AT (4'-2" x 6'-6" x 4'-0" INSIDE) 6" DCCA, 4484 LA + 57 AT (5'-0" x 6'-6" x 6'-2" OR 4'-4" INSIDE) 8" DCCA, 5106 LA + 57 AT (5'-0" x 10'-0" x 6'-2" OR 4'-4" INSIDE) 10" DCCA, 5106 LA + 57 AT (5'-0" x 10'-0" x 6'-2" OR 4'-4" INSIDE) 12" DCCA, 5106 LA + 57 AT (5'-0" x 10'-0" x 6'-2" OR 4'-4" INSIDE)
12	6" PVC DRAIN, DISCHARGE TO DAYLIGHT OR TO CATCH BASIN, MINIMUM SLOPE 1% UNLESS OTHERWISE APPROVED. ADD SCREENING AT BOTH ENDS
13	WATER TIGHT GROUT, INLET AND OUTLET PIPE, DRAIN PIPE AND BRICK ACCESS OPENING
14	SIGN READING "DANGER-PERMIT REQUIRED-CONFINED SPACE, DO NOT ENTER"

DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSY.

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D19



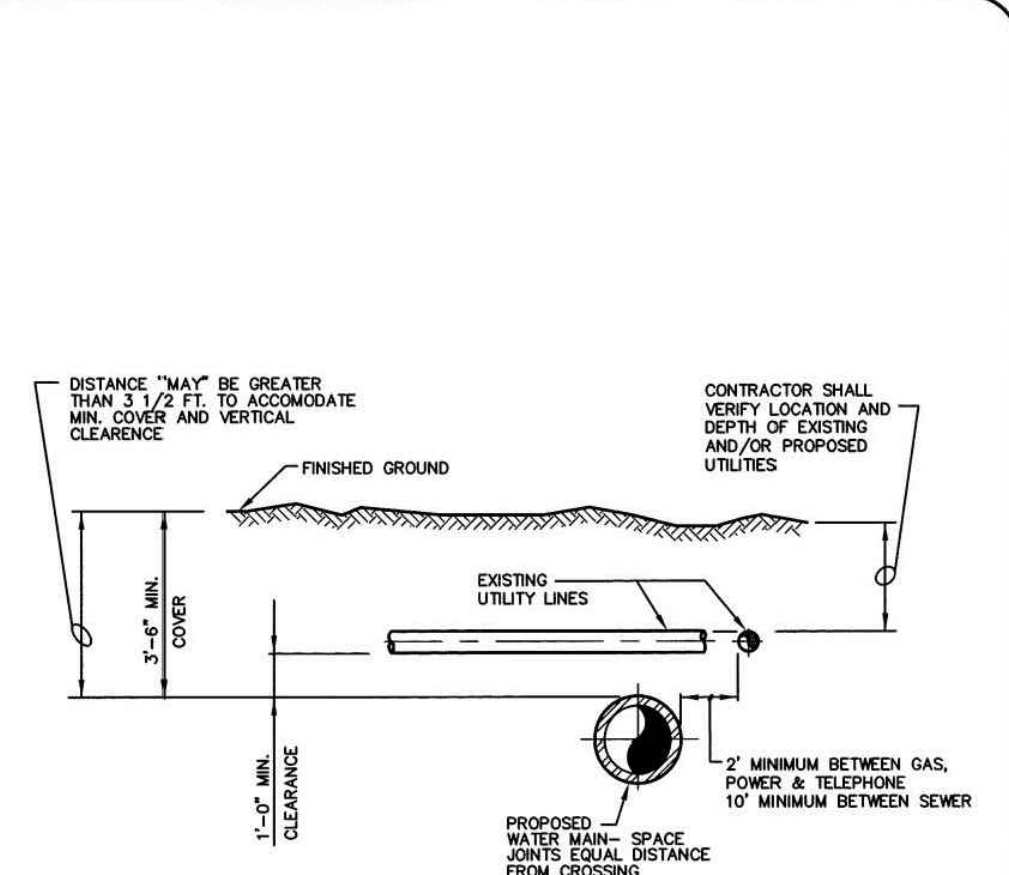
NO.	DESCRIPTION
1	POST INDICATOR VALVE, MJ WITH MEGALUGS
2	MAIN LINE SIZE X 4" TEE, MJ WITH MEGALUGS
3	4" DUCTILE IRON PIPE, CLASS 52"
4	4" FLAPPER CHECK VALVE WITH BALL CHECK DRAIN VALVE, MJ WITH MEGALUGS
5	4" FLAPPER CHECK VALVE WITH BALL CHECK DRAIN VALVE, MJ WITH MEGALUGS
6	FIRE DEPARTMENT CONNECTION, STORZ ADAPTER, CONNECTION TO COMPLY WITH FIRE DEPARTMENT REQUIREMENTS. 4" MUKILTEO & DIST. #1, 5" ELSEWHERE. ALL ABOVE GROUND PIPING TO BE PAINTED SAME COLOR RED AS F.V.
7	WATER TIGHT GROUT
8	6" PVC DRAIN TO DAYLIGHT OR CB, MINIMUM SLOPE 1% SCREEN AT BOTH ENDS W/BACKWATER VALVE IN VAULT

FIRE LINE CONNECTION

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D20

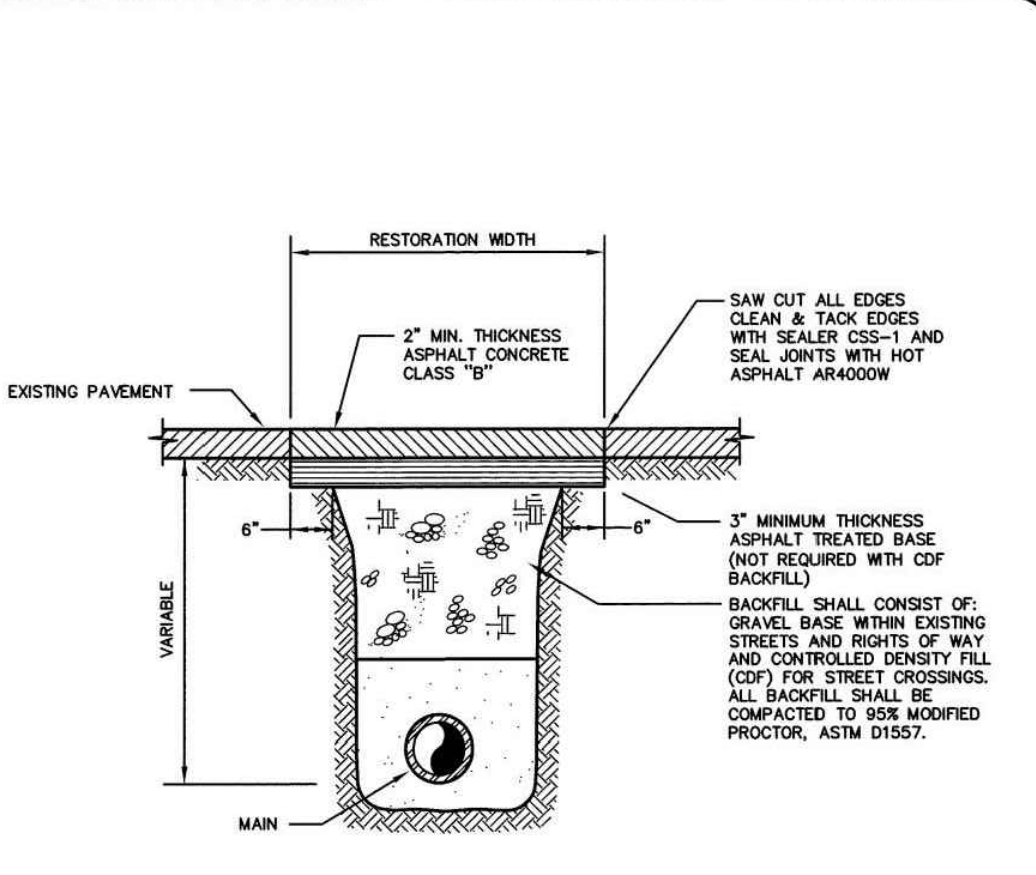


TYPICAL UTILITY CROSSING

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D22

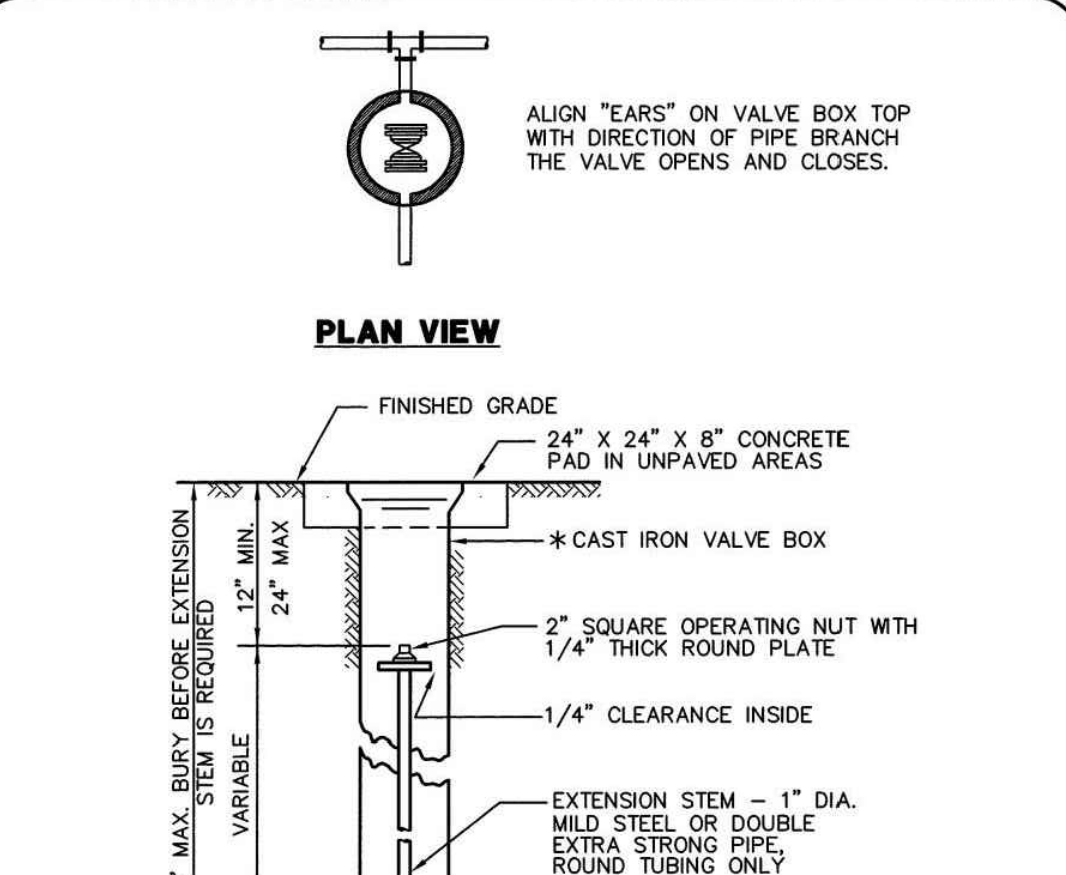


ASPHALT PAVEMENT REPAIR

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D23

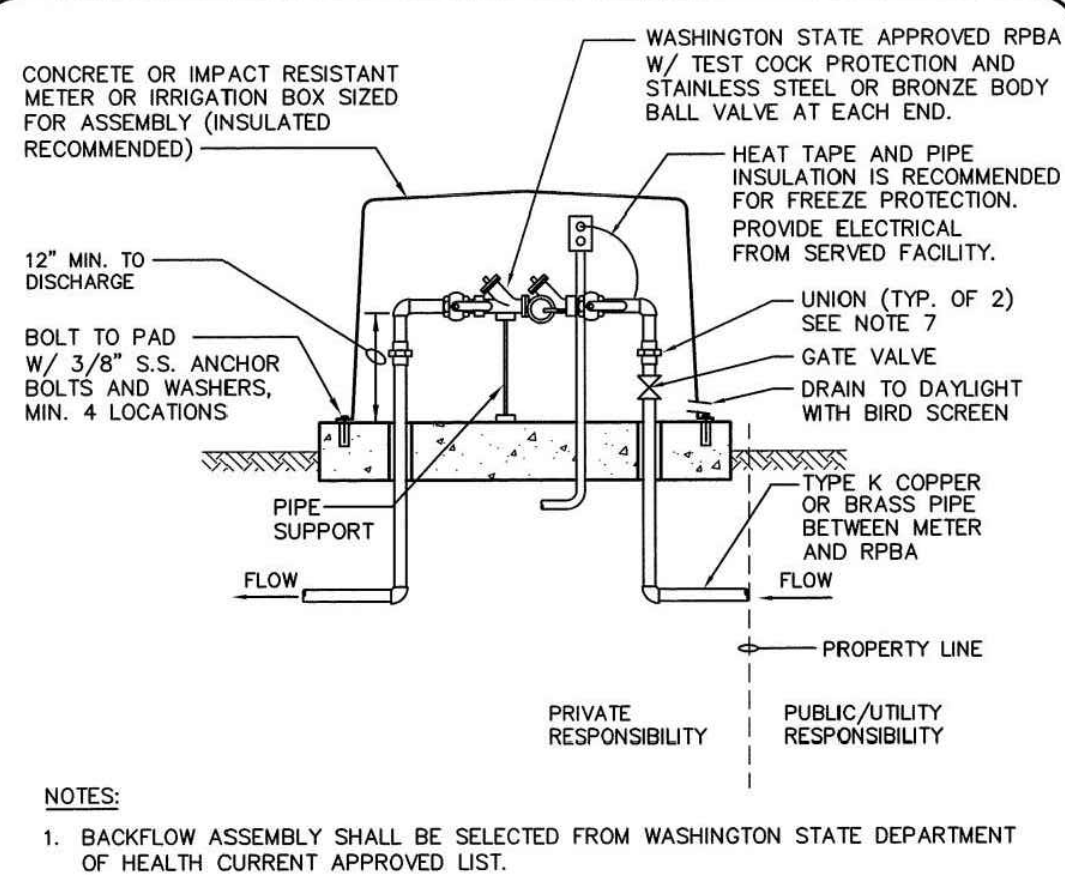


VALVE STEM EXTENSION

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D24



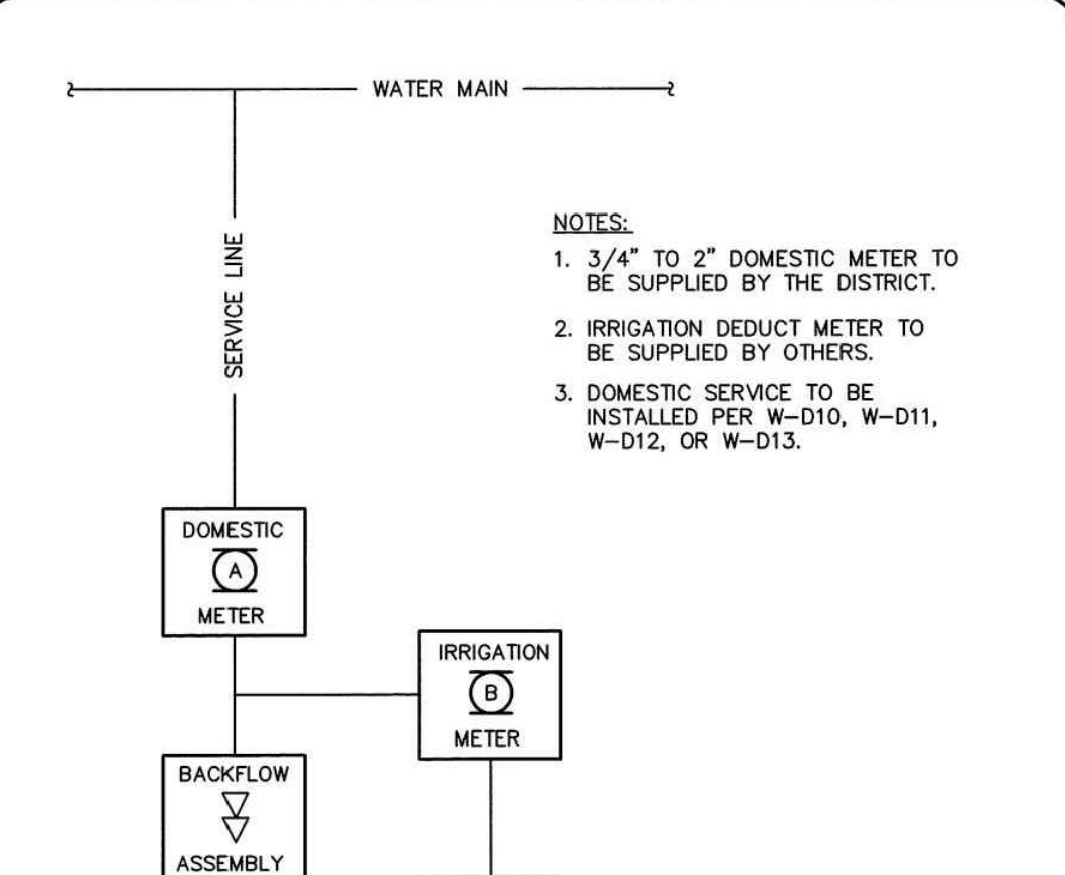
- NOTES:
- BACKFLOW ASSEMBLY SHALL BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH CURRENT APPROVED LIST.
 - CONCRETE TO BE 2500 PSI MIX WITH AIR ENTRAINMENT.
 - COMPLETE ALL WORK IN ACCORDANCE WITH STATE, DISTRICT AND MANUFACTURER STANDARDS.
 - SYSTEM SHALL NOT BE PUT INTO SERVICE UNTIL RPBA IS APPROVED BY THE DISTRICT AND TESTED/CERTIFIED BY A WASHINGTON STATE LICENSED TESTER.
 - RPBA IS CONSIDERED PART OF THE PRIVATE SYSTEM AND SHALL BE MAINTAINED BY THE PROPERTY OWNER WITH ANNUAL CERTIFICATION REQUIRED.
 - PRESSURE TEST AND DISINFECT PER A.W.W.A. STANDARDS.
 - DIELECTRIC UNIONS SHALL BE USED TO SEPARATE DISSIMILAR MATERIALS.
 - RPBA BOX SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF WATER SERVICE BOX PRIOR TO ANY BRANCH CONNECTIONS WITH NO MORE THAN 1'-2" BETWEEN BOXES.

REDUCED PRESSURE BACKFLOW ASSEMBLY - 3/4" TO 2"

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D26

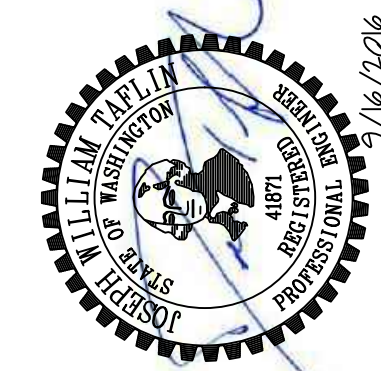


TYPICAL IRRIGATION DEDUCT SERVICE

Mukilteo Water and Wastewater District
STANDARD DETAILS

8/09

W-D27



NAVIX
SITE | CIVIL
t: 425.453.9501
f: 425.453.8206
www.navixeng.com

PACIFIC SEAFOOD
PROCESSING FACILITY
8007 44TH AVE W
MUKILTEO, WA 98274

WATER DETAILS



1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE MUKILTEO WATER AND WASTEWATER DISTRICT. THE DEVELOPER, CONTRACTOR AND PROPOSED ON-SITE SUPERVISOR SHALL ATTEND.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE MUKILTEO WATER AND WASTEWATER DISTRICT DEVELOPER STANDARDS. CONTRACTOR TO HAVE MUKILTEO WATER AND WASTEWATER DISTRICT STANDARDS ON JOB SITE AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.
3. A DISTRICT APPROVED SIGNED COPY OF THE PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE DISTRICT, THE PROJECT SPECIFICATIONS, AND THE MOST RECENT EDITION OF THE APWA STANDARDS AND SPECIFICATIONS.
5. WORK SHALL NOT COMMENCE UNTIL APPROVAL IS RECEIVED FROM THE STATE DEPARTMENT OF ECOLOGY, UNLESS THE REVIEW AND APPROVAL IS WAIVED BY ECOLOGY.
6. FRONT PROPERTY CORNERS SHALL BE SET BY A LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON PRIOR TO THE START OF CONSTRUCTION.
7. NOTIFY THE DISTRICT 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
8. FOR AID IN UTILITY LOCATION, CALL 1-800-424-555, A MINIMUM OF 48 HOURS (2 WORKING) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
9. PIPE LENGTHS, MANHOLE DEPTHS, ETC., AS SHOWN ARE APPROXIMATE. DEVELOPER IS RESPONSIBLE FOR SUPPLYING PROPER QUANTITIES OF MATERIALS.
10. PROVIDE THE DISTRICTS INSPECTOR WITH A COPY OF ALL CUT SHEETS PRIOR TO CONSTRUCTION.
11. PERMANENT ACCESS FOR DISTRICT SERVICE VEHICLES SHALL BE PROVIDED AT ALL MANHOLES. MANHOLES SHALL BE CONSTRUCTED AS PER DISTRICT STANDARD DETAILS, INCLUDING CONSTRUCTION OF CHANNELS, WHERE INDICATED, PROVIDE KNOCK-OUTS AND CHANNELIZATION FOR SIDE SEWER OR FUTURE MAINLINE EXTENSIONS; AND FOR PVC PIPE, PROVIDE A WATERTIGHT FLEXIBLE RUBBER BOOT OR HEAVY DUTY SAND COLLAR. PROVIDE LOCKING LIDS FOR MANHOLE COVERS.

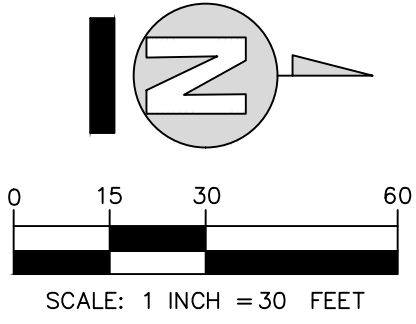
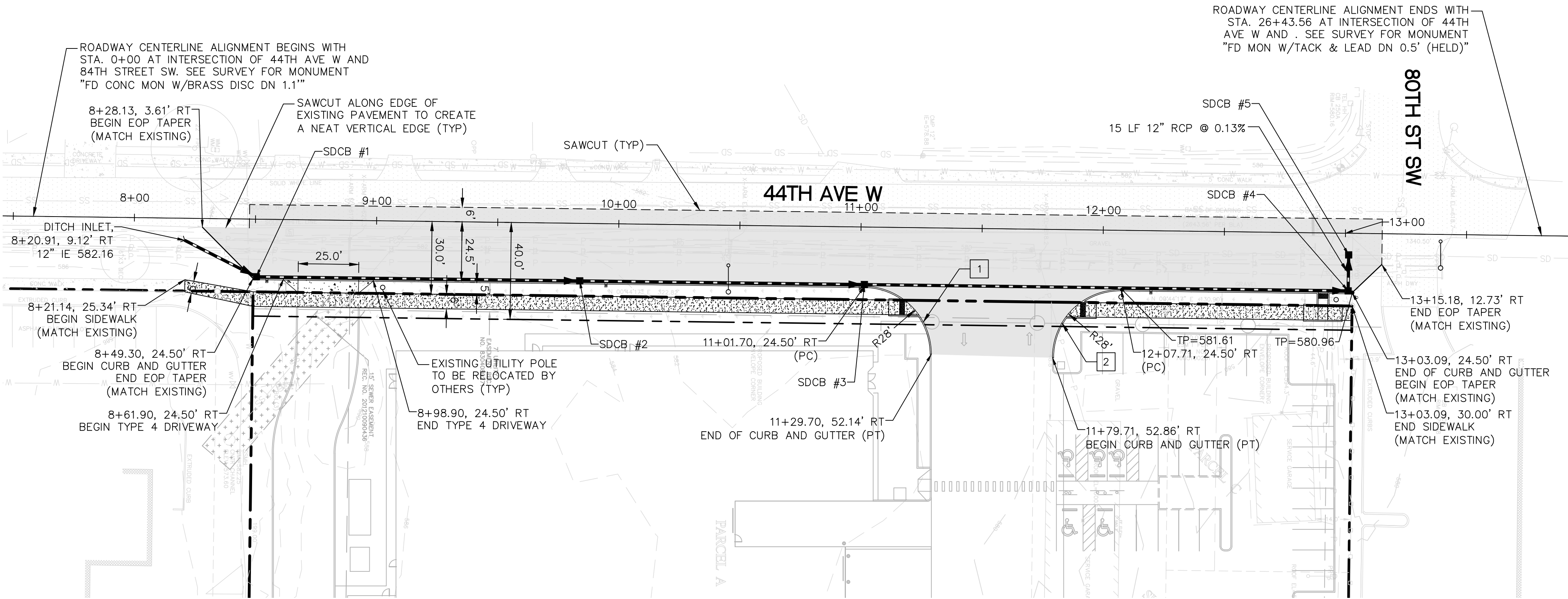
12. CONNECTION TO EXISTING MAIN SHALL BE DONE SO AS TO PREVENT ANY FOREIGN MATERIALS FROM ENTERING EXISTING SEWERS. EXISTING PIPE IN SADDLE MANHOLE INSTALLATIONS SHALL NOT BE CUT OR REMOVED UNTIL INSTRUCTED TO DO SO BY THE DISTRICT.
13. CONNECTION TO EXISTING MANHOLES SHALL BE MADE BY UTILIZATION OF A CONCRETE COREDRILLING MACHINE OF ADEQUATE DIAMETER TO GROUT IN PLACE AN ADAPTER IF PVC SEWER LINES ARE INSTALLED. ALIGN CORE-DRILLING MACHINE TO PROVIDE MINIMUM OF 0.10-FOOT DROP ACROSS THE MANHOLE.
14. PVC PIPE SHALL BE SDR-35 ASTM D3034 FURNISHED IN 13-FOOT MAXIMUM LENGTHS AND SHALL BE FULLY ENCASED IN PEA GRAVEL (OR CRUSHED ROCK, BASE COURSE, IF INSTALLED WITHIN THE CITY LIMITS OF EVERETT) EXTENDING FROM 4 INCHES BELOW TO 12 INCHES ABOVE PIPE BARREL.
15. DI SANITARY SEWER PIPE SHALL CONFORM TO AWWA C151 AND SHALL BE POLYETHYLENE OR EPOXY LINED, RESTRAINED JOINT. THE DI PIPE SHALL BE CLASS 52, UNLESS OTHERWISE APPROVED.
16. SEWERS TO BE LOCATED BELOW POTABLE WATER LINES, WITH 18-INCHES VERTICAL SEPARATION AND WITH A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION FROM PARALLEL WATER LINES. CROSSING ANGLES SHALL BE 45 DEG. OR GREATER. UNUSUAL OR SPECIAL CONDITIONS ARE ADDRESSED IN ACCORDANCE WITH THE DEPARTMENT ECOLOGY AND DEPARTMENT OF HEALTH CRITERIA.
17. SIDE SEWER SHALL BE A MINIMUM OF 6 INCHES IN DIAMETER AND SHALL HAVE A MINIMUM SLOPE OF 2%. SIDE SEWER SHALL INCLUDE TWO 6-INCH TEES AT THE PROPERTY LINE; ONE WITHIN THE PUBLIC RIGHT-OF-WAY AND ONE WITHIN THE PRIVATE PROPERTY. SEE DETAIL.
18. ALL SEWER LINES SHALL BE CLEANED AND TESTED IN ACCORDANCE WITH DISTRICT STANDARDS AND SPECIFICATIONS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND/OR REPAIRING ASPHALT AND GRAVEL SURFACE DISTURBED AS A RESULT OF THIS CONSTRUCTION UNTIL THEY ARE ACCEPTED BY THE PUBLIC WORKS DEPARTMENT OF THE CITY AND/OR COUNTY.
20. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS WHICH SHALL BE 100%.
21. MANHOLE COVERS LOCATED IN ASPHALT AREAS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO PAVING.
22. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE DISTRICT IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.
23. SEWER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE DISTRICT AND AFTER PAYMENT OF ALL CURRENT APPLICABLE FEES.



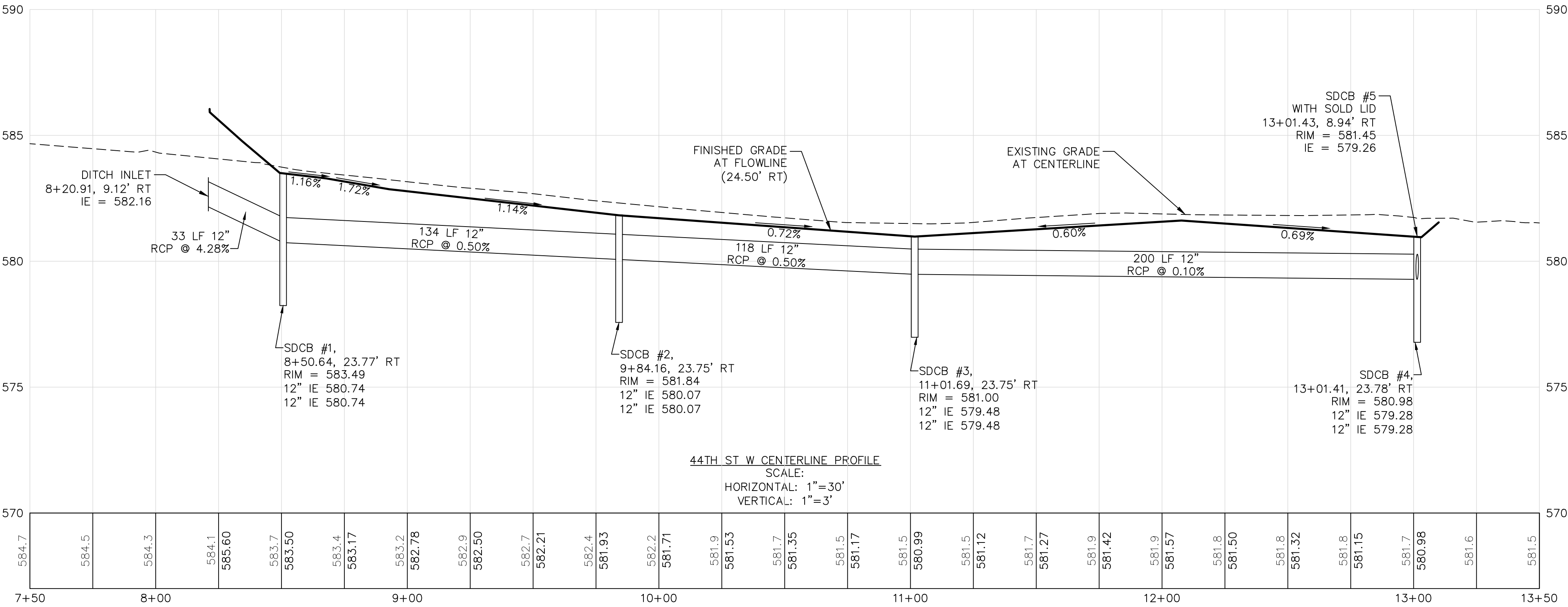
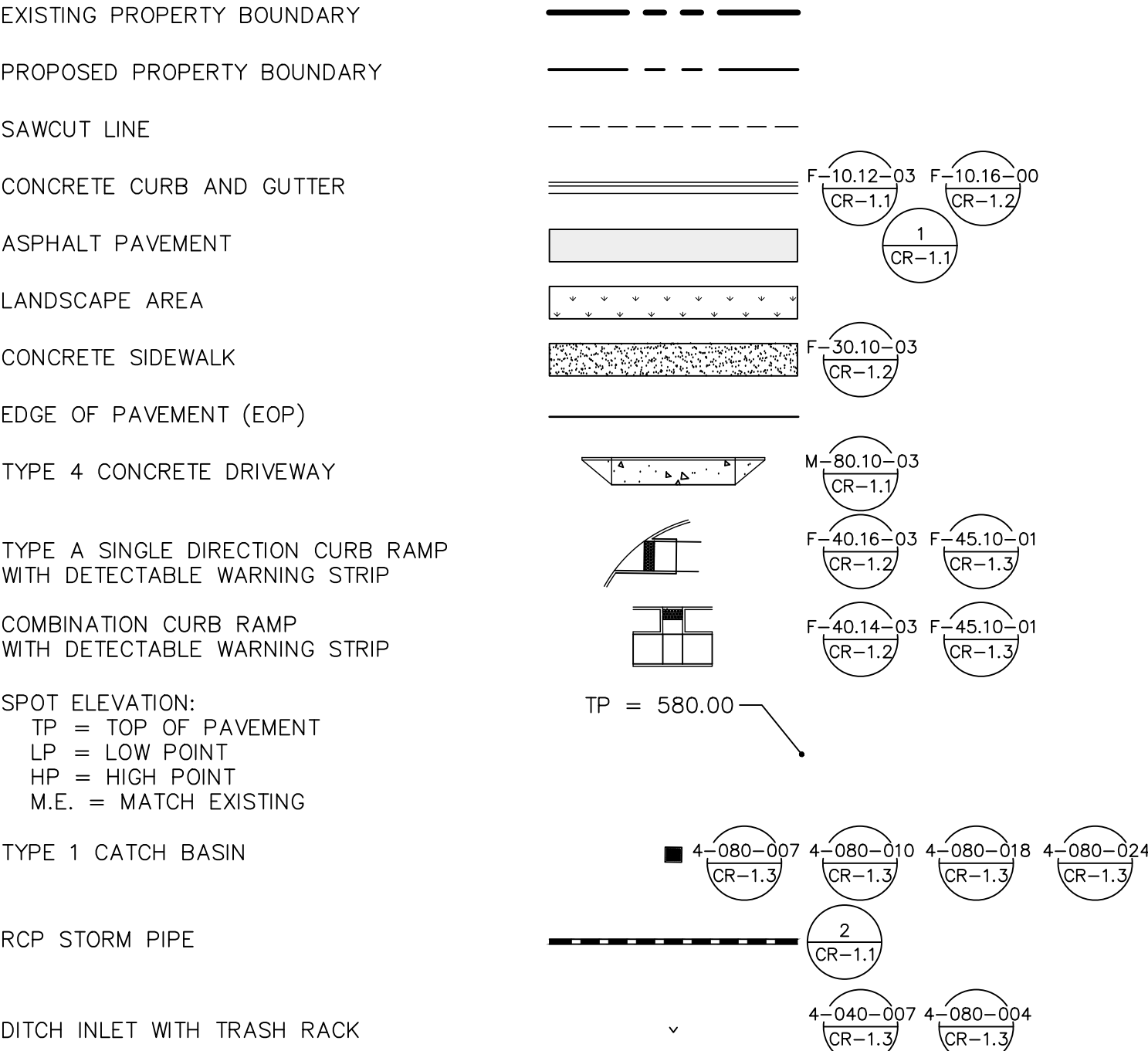


- 8/09

C-3.5



LEGEND:



INTERSECTION CURVE TABLE

NO.	BEGIN STA.	OFFSET	END STA.	OFFSET	ALL ELEVATIONS ARE TO FLOWLINE				RADIUS	LENGTH	DELTA
					BEGIN	1/4Δ	1/2Δ	3/4Δ			
1	11+01.70	24.50' RT	11+29.70	52.14' RT	580.98	581.09	581.26	581.18	580.86	28'	90' 00' 44"
2	11+79.70	52.86' RT	12+07.70	24.50' RT	580.82	581.20	581.66	581.60	581.62	28'	89' 00' 26"

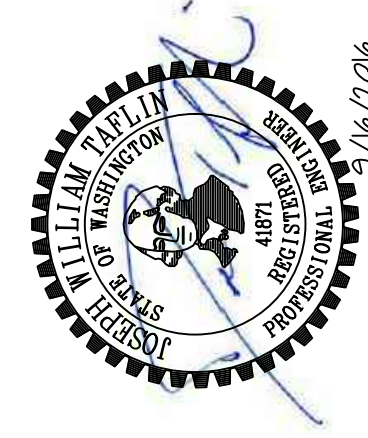
NOTES:

- CURB CALLOUTS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- SEE SHEET CR-1.1 AND CR-1.2 FOR ROADWAY AND STORM DRAINAGE DETAILS.
- ALL CATCH BASIN STATIONS AND OFFSETS RELATE TO FLOW LINE, FACE OF CURB (BACK OF RIM) UNLESS OTHERWISE NOTED. PROVIDE CATCH BASIN SOLID LID OR GRATE AS NOTED ON PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING ALL EXISTING UTILITIES TO REMAIN WITHIN THE PROJECT LIMITS FOR DETERIORATION (CRACKS, DENTS, OR GOUGES). IF PIPES ARE FOUND TO BE DAMAGED, CONTRACTOR SHALL NOTIFY ENGINEER FOR REPLACEMENT OF EXISTING PIPE.
- MANHOLES SHALL BE 48"Ø UNLESS OTHERWISE NOTED.
- ALL NEW PIPES AND STRUCTURES SHALL BE THOROUGHLY CLEANED, INSPECTED, AND PRESSURE/VACUUM TESTED AS REQUIRED BY THE AGENCIES HAVING JURISDICTION. ALL TESTS MUST BE WITNESSED AND PASSED BY THE INSPECTOR PRIOR TO PLACING INTO OPERATION. CLEANING, INSPECTION, AND PRESSURE/VACUUM TESTS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST CITY OF MUKILTEO SPECIFICATIONS. COORDINATE TESTING WITH ALL PARTIES A MINIMUM OF 2 WEEKS PRIOR TO SCHEDULED TEST DATE.



No.	Date	By	Revision	Description

Issue Date:	09/16/2016	Project No.:	50530001
Designed By:	SNG/JWT	Drawn By:	SNG
Checked By:	JWT	Permit:	

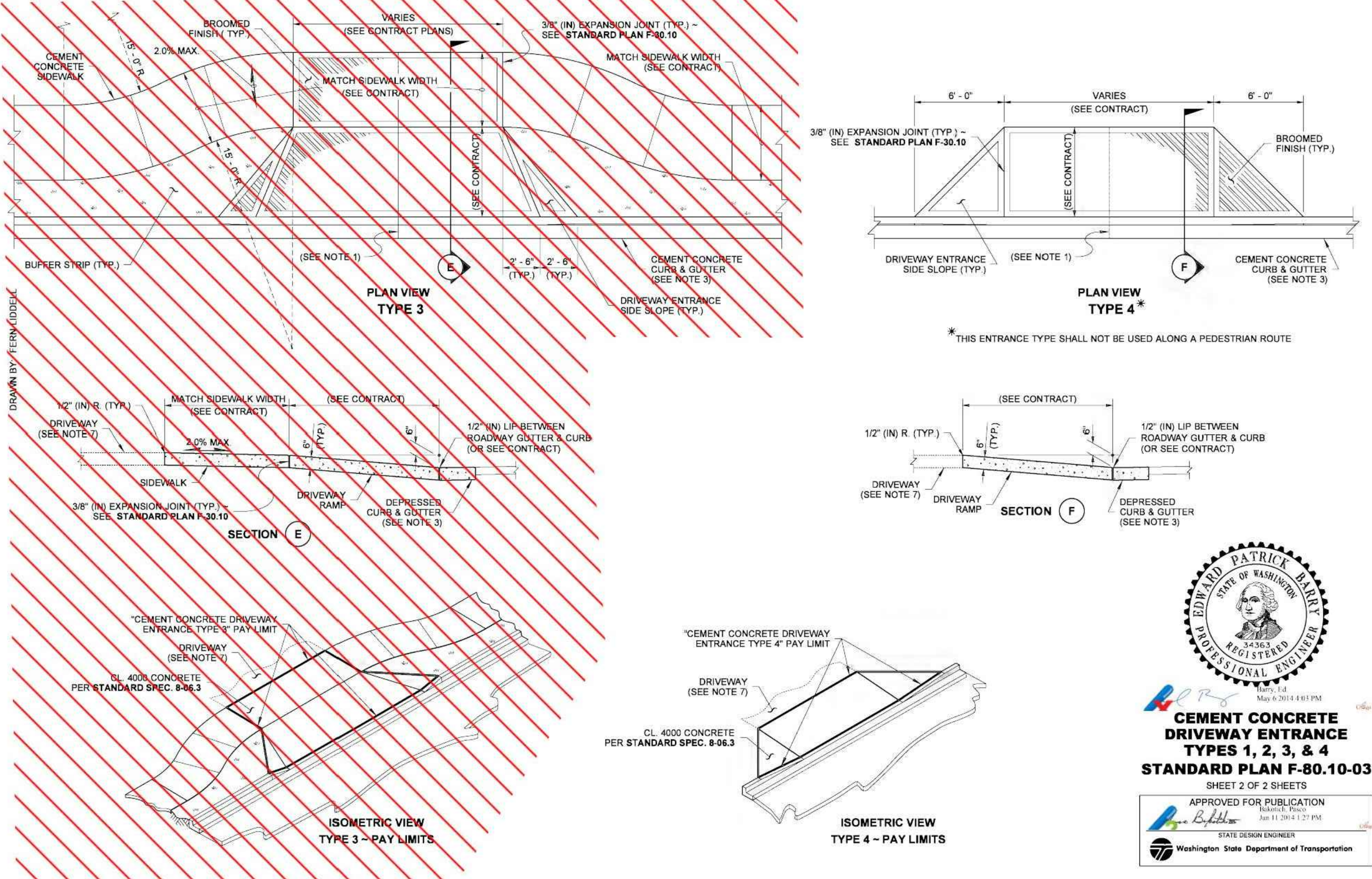
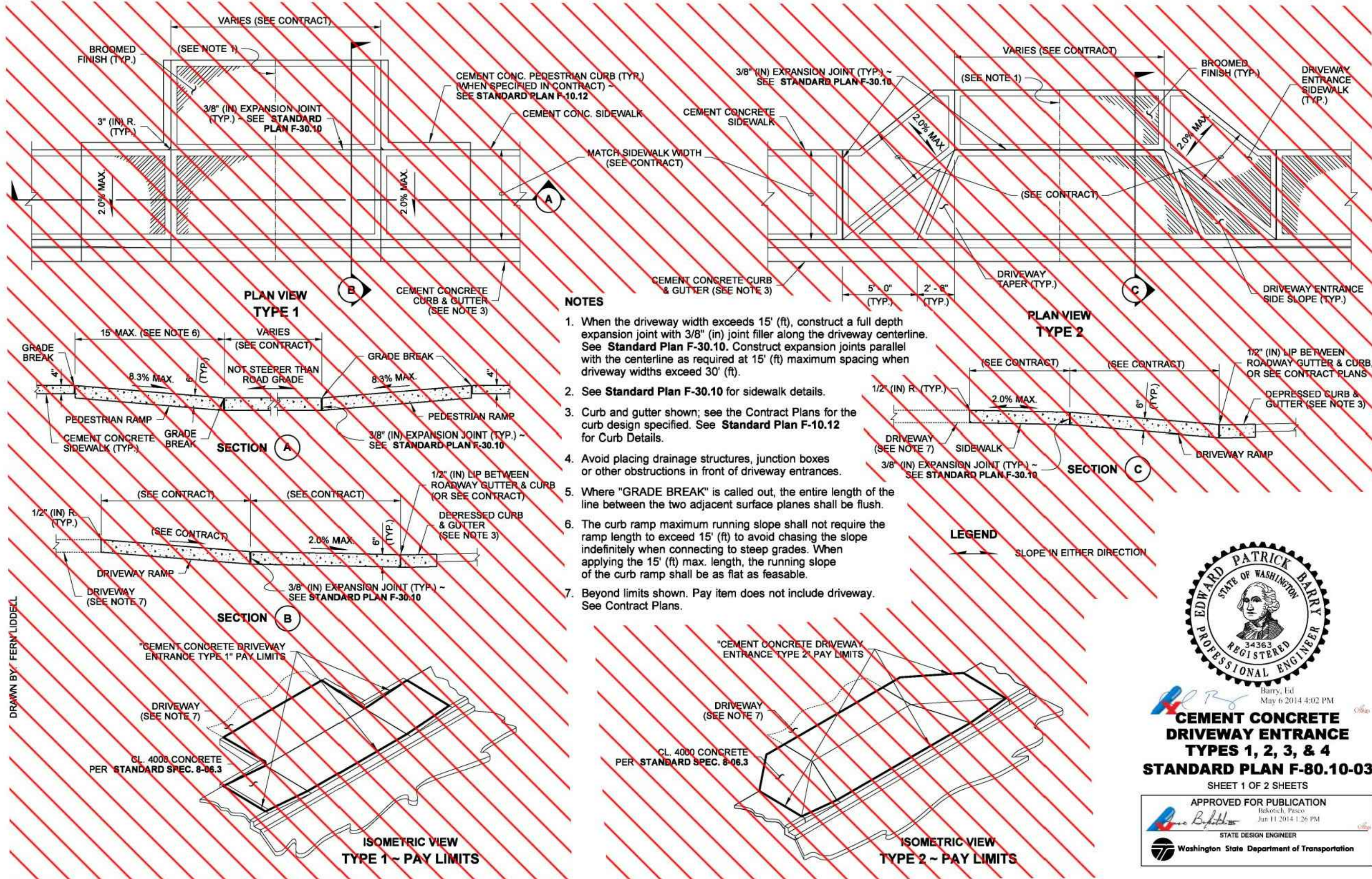


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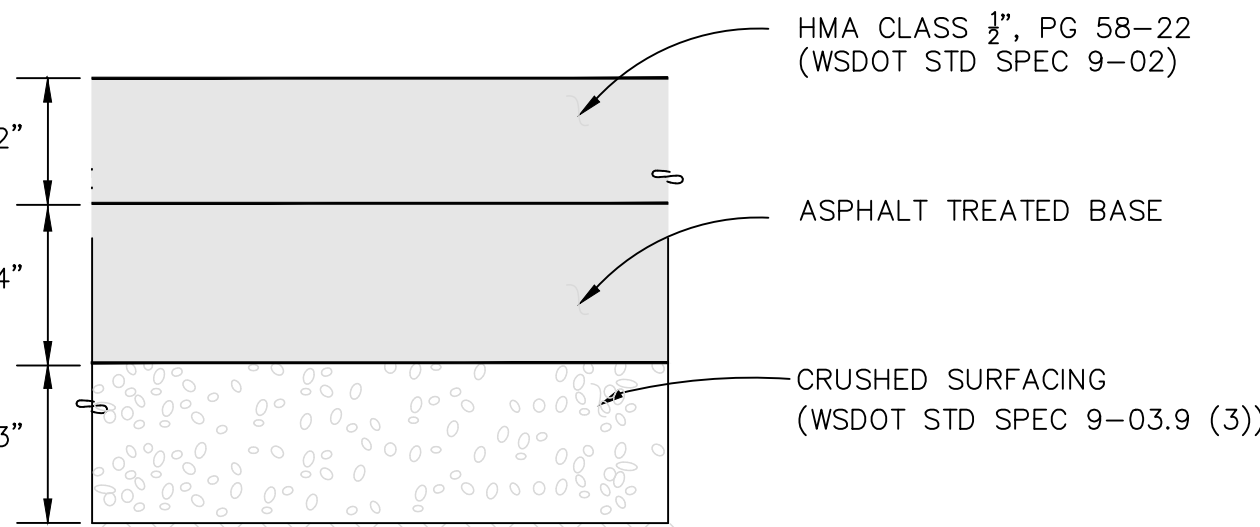
ROADWAY PLAN AND PROFILE

CR-1.0



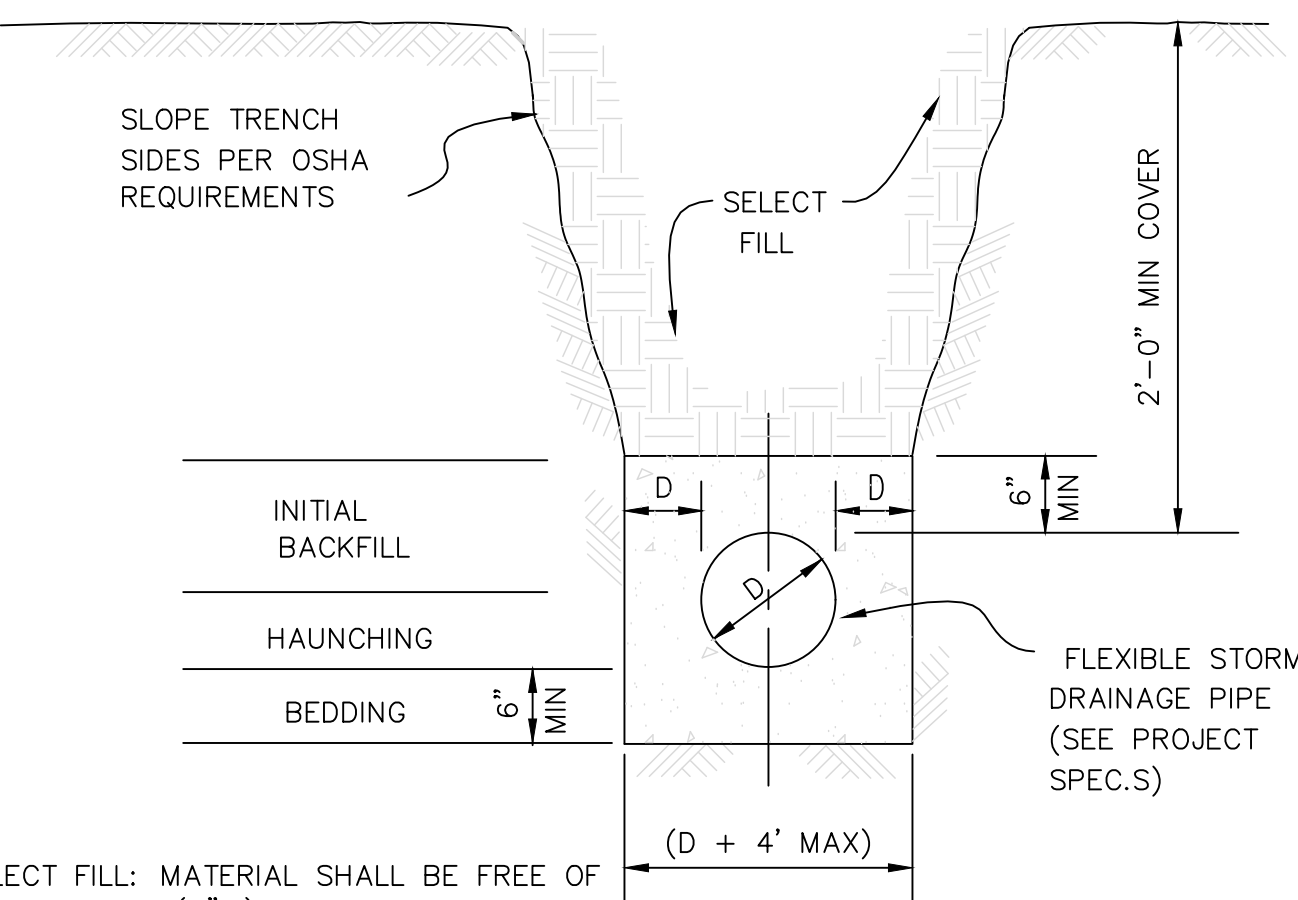
GENERAL NOTES: (CITY OF MUKILTEO)

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF MUKILTEO STANDARDS AND SPECIFICATIONS; THE CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION; AND THE ADOPTED EDITION OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANUAL FOR WESTERN WASHINGTON. ALL WORK WITHIN THE PLAT AND CITY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR DESIGNATED REPRESENTATIVE.
- PRIOR TO ANY SITE CONSTRUCTION INCLUDING CLEARING/LOGGING OR GRADING, THE SITE CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR'S NAME AND PHONE NUMBER IS _____.
- THE CONTRACTOR IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S NAME AND PHONE NUMBER IS _____.
- PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CITY OF MUKILTEO COMMUNITY DEVELOPMENT AT 425-355-4141 X251 TO SCHEDULE A PRECONSTRUCTION CONFERENCE. ENGINEER AS-BUILT DRAWINGS IN ACCORDANCE WITH THE CURRENT ADOPTED INTERNATIONAL BUILDING CODE SHALL BE REQUIRED PRIOR TO FINAL SITE APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR UTILITY, ROAD, AND RIGHT-OF-WAY CONSTRUCTION. THE CONTRACTOR FOR THIS PROJECT IS _____.



NOTE: PAVEMENT SHALL BE CONSTRUCTED PER MUKILTEO DEVELOPMENT STANDARDS FOR URBAN COLLECTOR ROADWAYS.

ASPHALT PAVEMENT



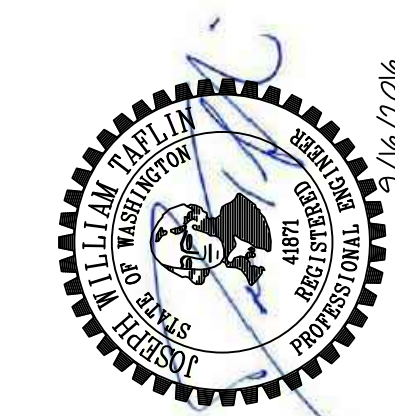
SELECT FILL: MATERIAL SHALL BE FREE OF LARGE ROCKS (3"+) AND SHALL BE PLACED IN 8" MAX LOOSE LIFTS AND COMPACTED TO 95% OF MAX. DENSITY PER MODIFIED PROCTOR TEST (ASTM D1557)

PIPE BEDDING, HAUNCHING AND INITIAL BACKFILL MATERIALS SHALL BE PER WSDOT STD. SPEC 9-03.16 AND SHALL BE SHAPED TO THE BOTTOM OF PIPE.

TYPICAL DRAINAGE TRENCH AND BEDDING DETAILS

No.	Date	By	Revision Description

Issue Date:	09/16/2016	Project No.	50530001
Designed By:	SNJ/JWT	Permit	
Drawn By:	SNJ	Checked By:	JWT



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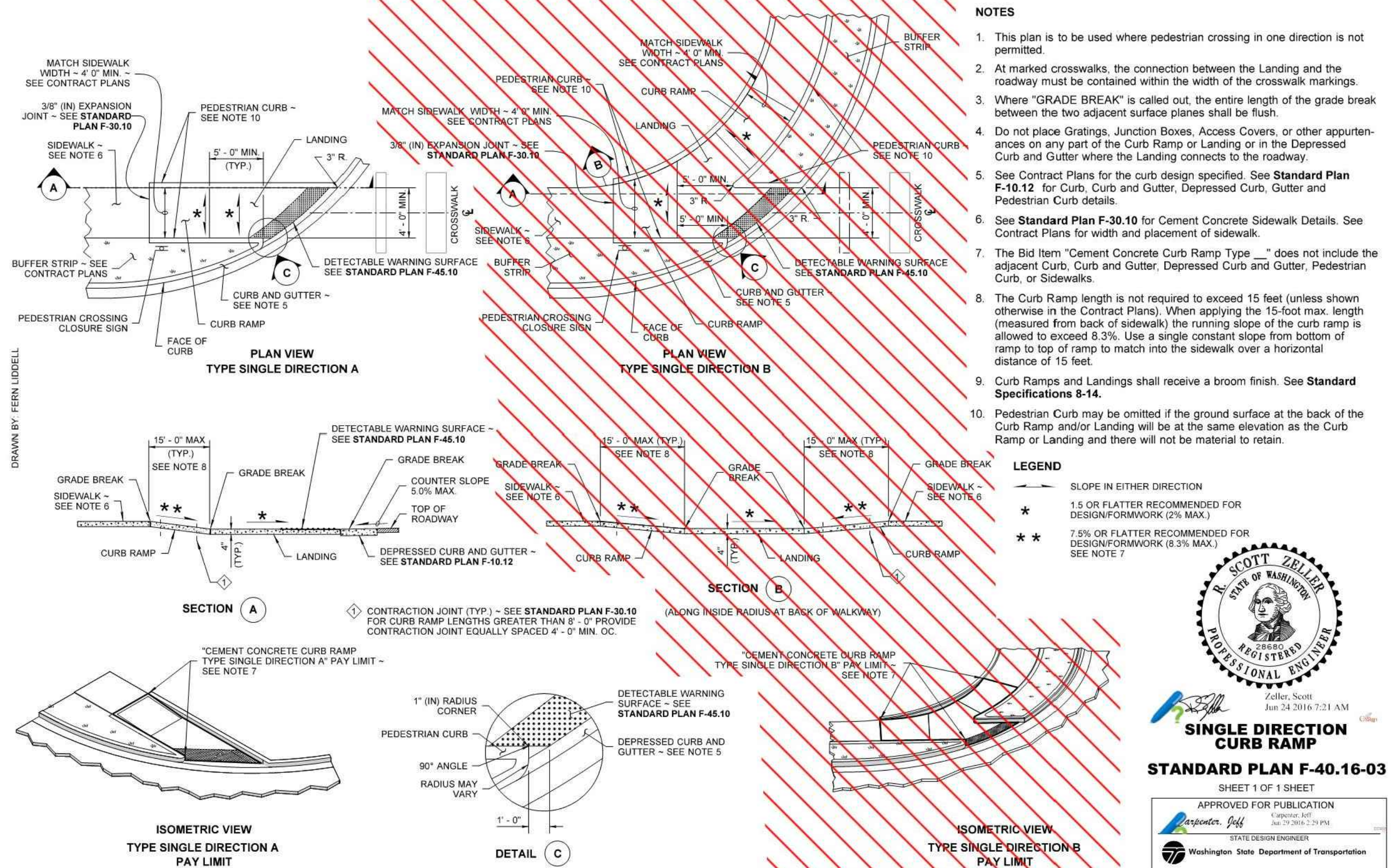
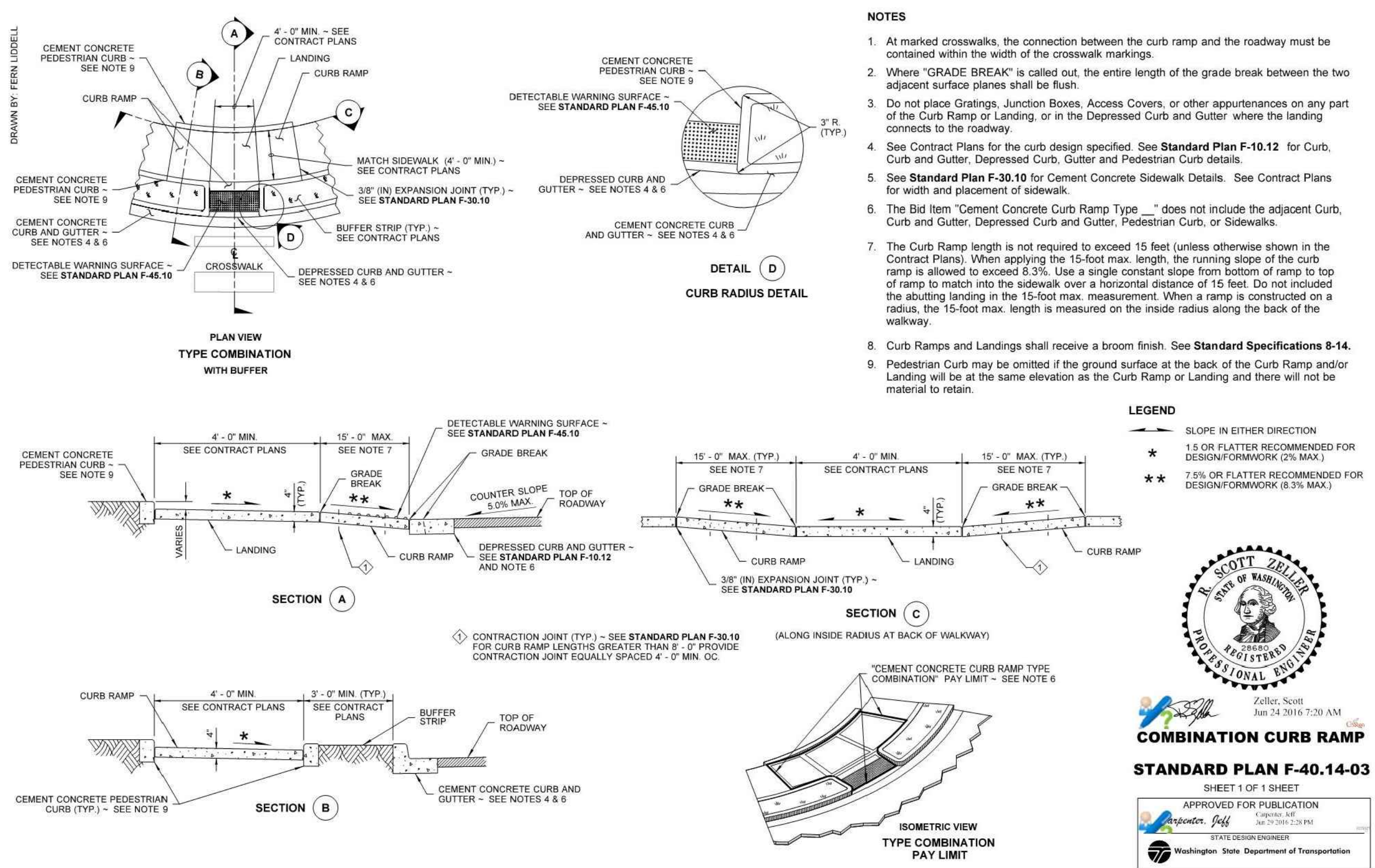
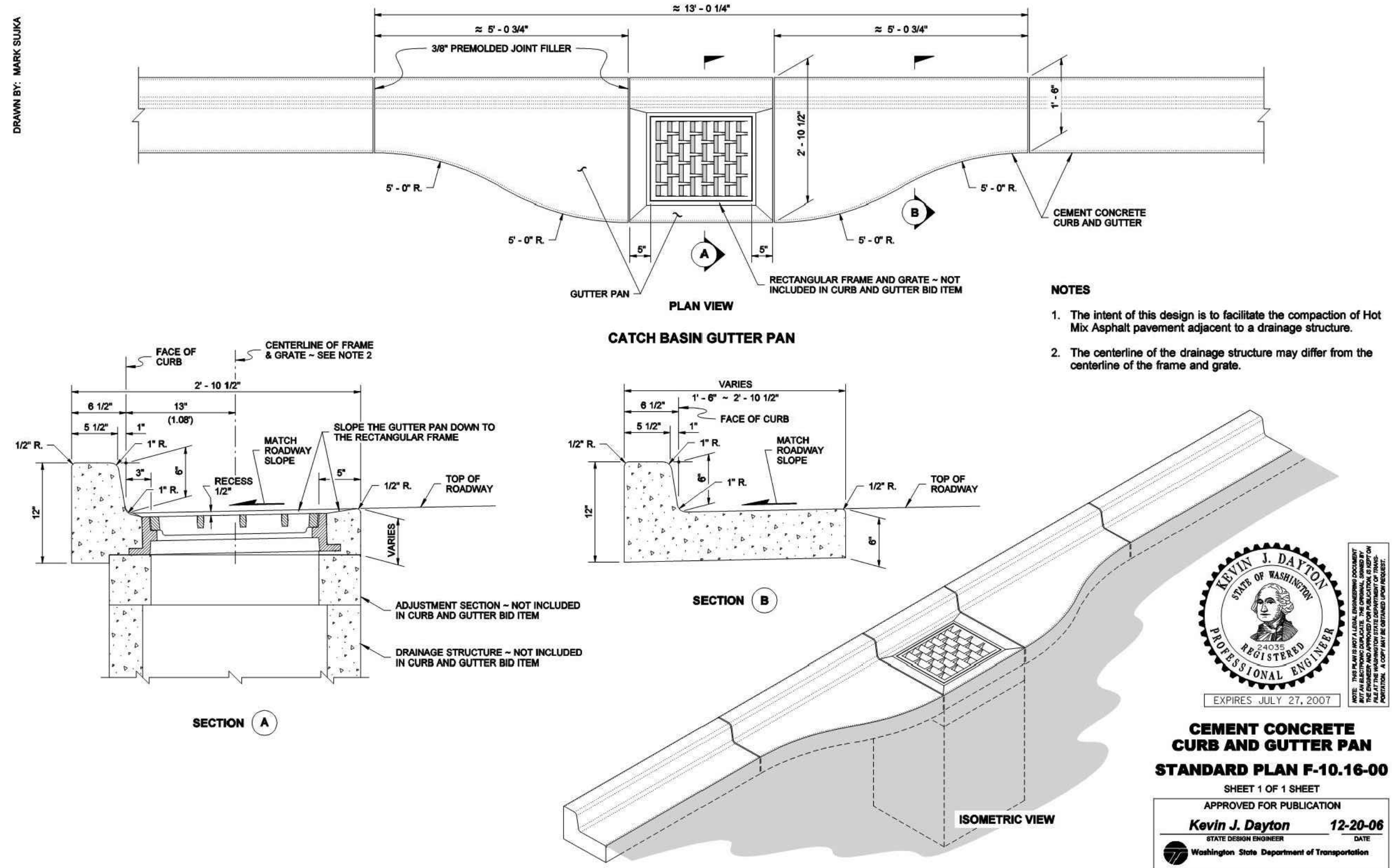
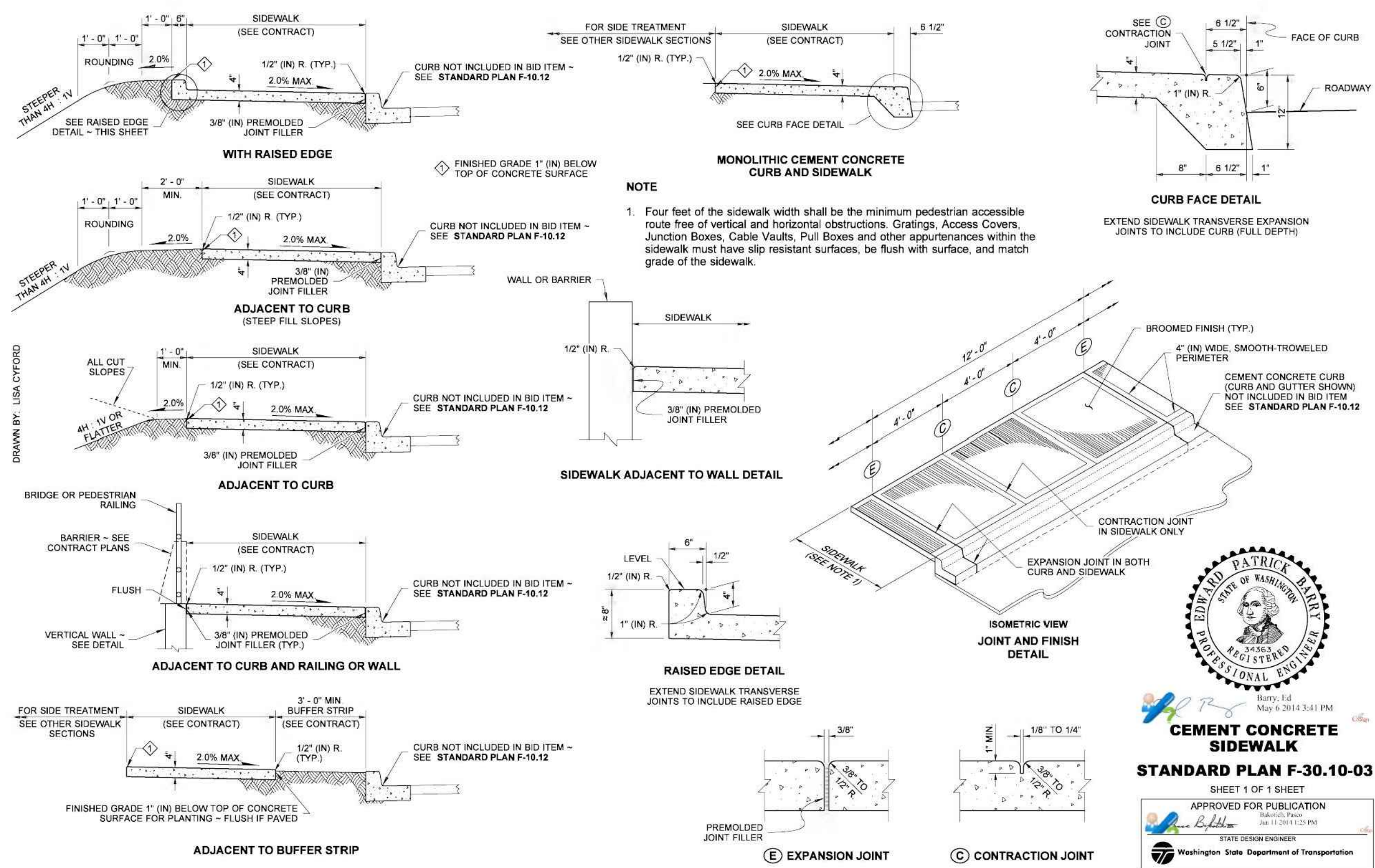
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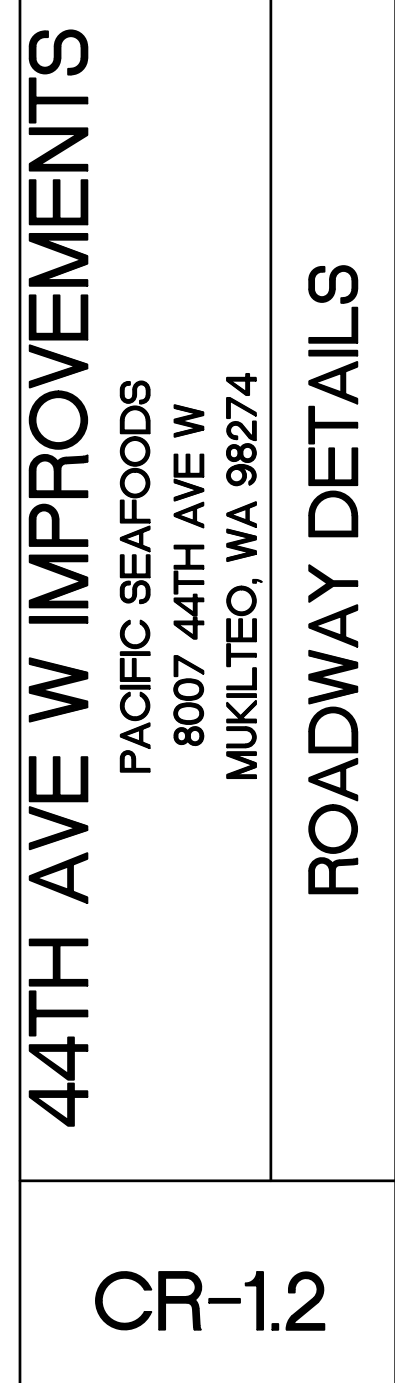
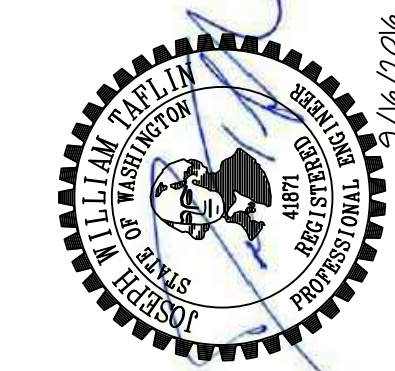
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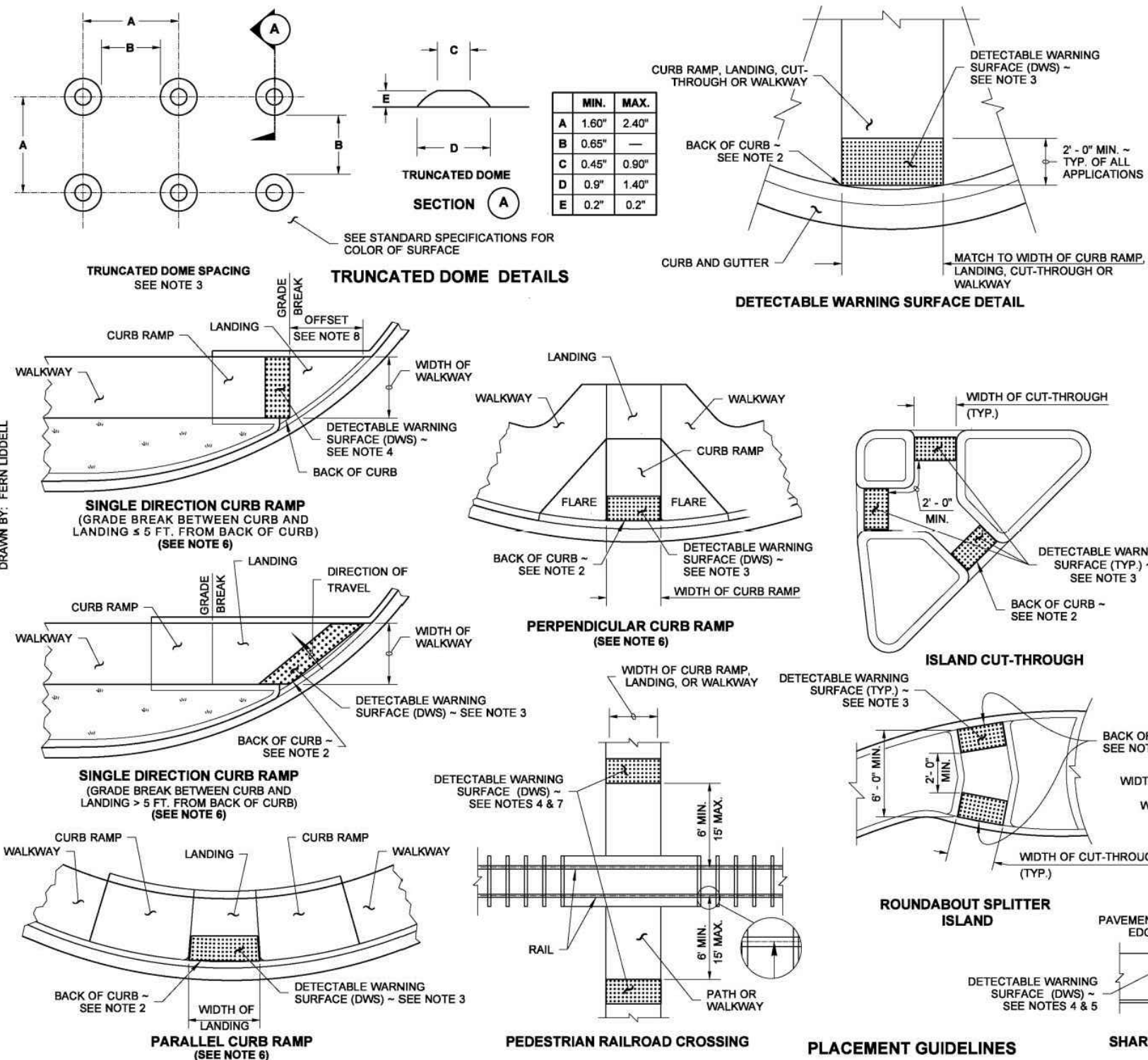
ROADWAY NOTES AND DETAILS



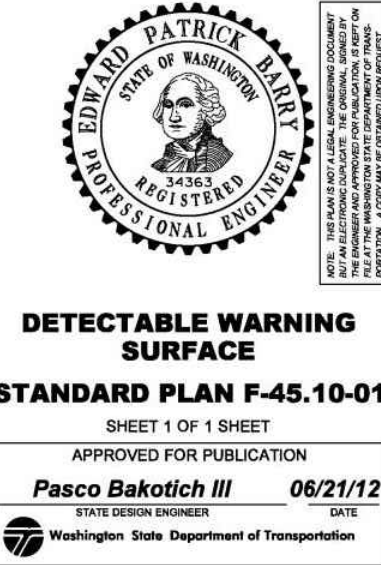


Designed By:		Issue Date:		Revision Description		
SNG/JWT		09/16/2016				
Drawn By:					No.	Date
SNG		PERMIT				By
Checked By:		Project No.				
JWT		50530001				

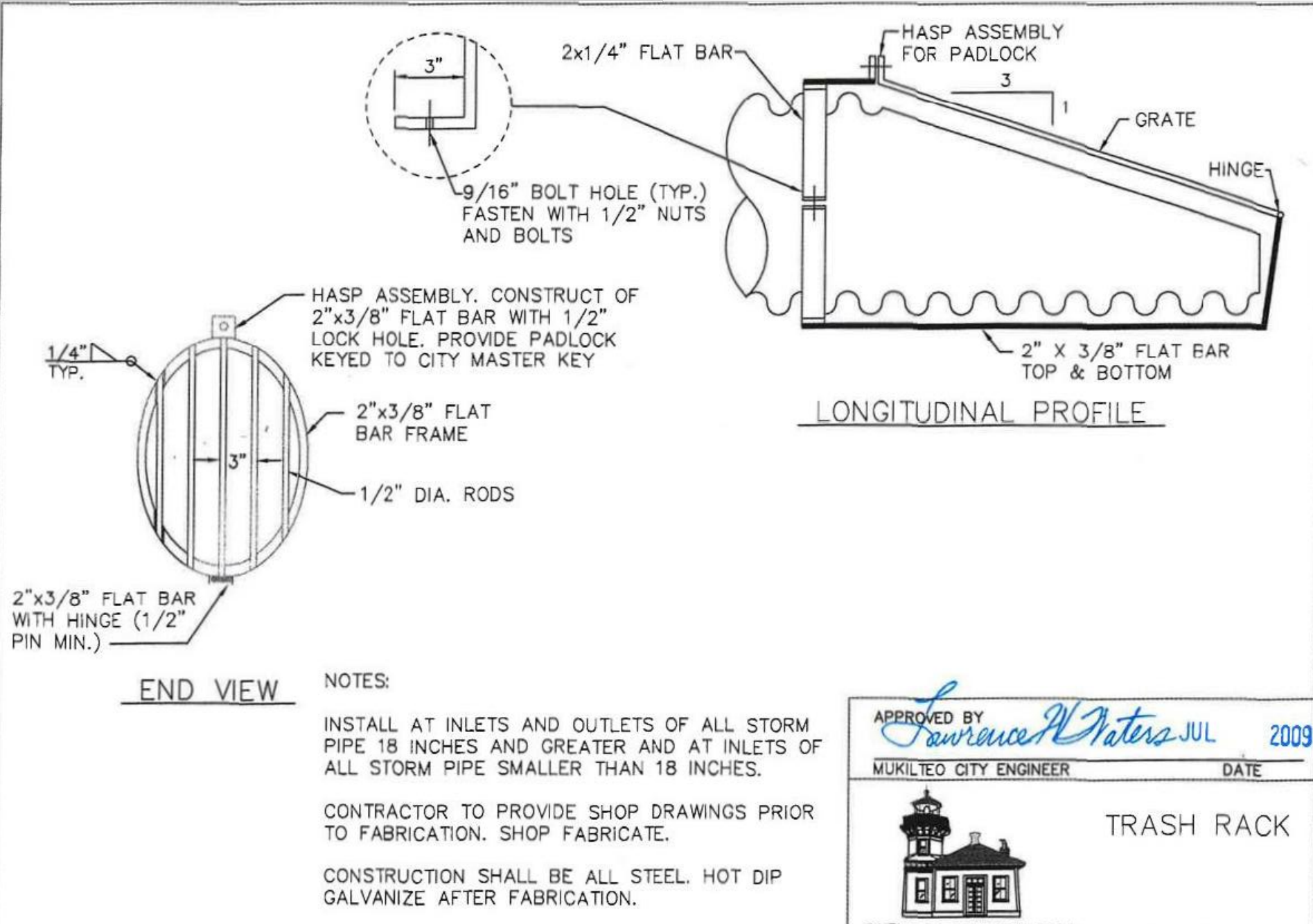




- NOTES**
- The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp (exclusive of flares) or the landing.
 - The Detectable Warning Surface shall be placed at the back of curb, and need not follow the radius.
 - The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
 - The rows of truncated domes shall be aligned to be parallel to the direction of travel.
 - If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
 - See **Standard Plans** for sidewalk and curb ramp details.
 - If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
 - When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp.

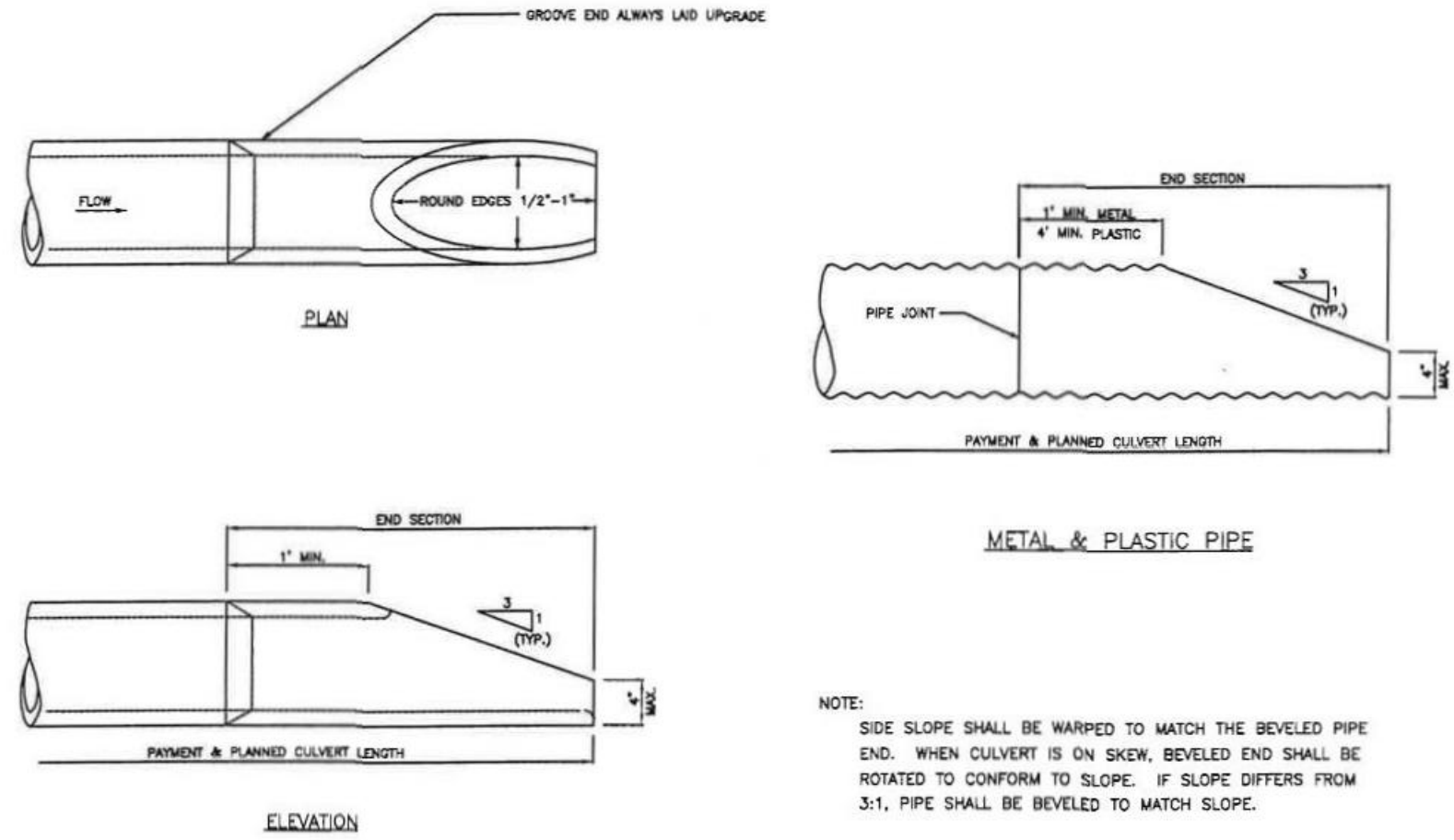


DETECTABLE WARNING SURFACE
STANDARD PLAN F-45.10-01
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Pasco Bakotich III 06/21/12
DATE
STATE DESIGN ENGINEER
Washington State Department of Transportation

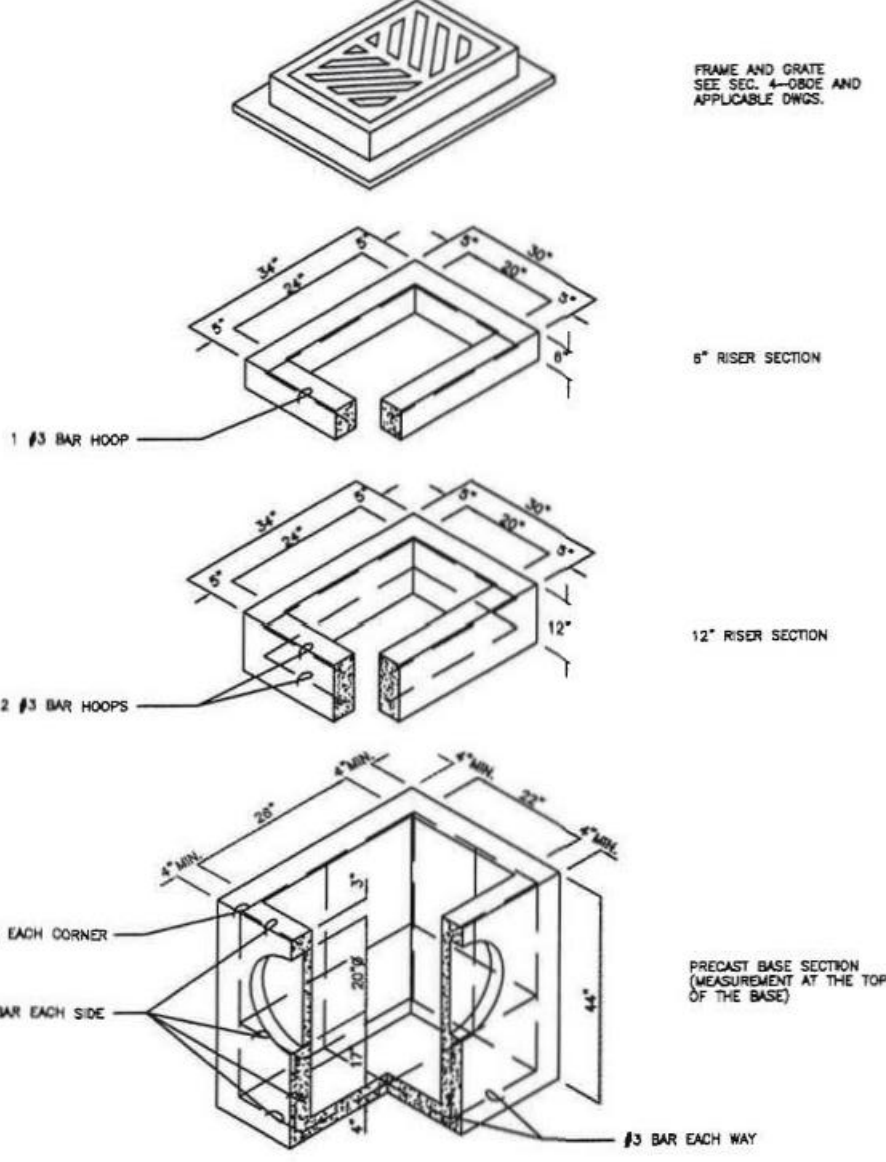


- NOTES:**
- INSTALL AT INLETS AND OUTLETS OF ALL STORM PIPE 18 INCHES AND GREATER AND AT INLETS OF ALL STORM PIPE SMALLER THAN 18 INCHES.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION. SHOP FABRICATE.
- CONSTRUCTION SHALL BE ALL STEEL. HOT DIP GALVANIZE AFTER FABRICATION.

APPROVED BY
Laurance Waters JUL 2009
MUKILTEO CITY ENGINEER
DATE
CITY OF MUKILTEO
STANDARD PLAN 4-040-007

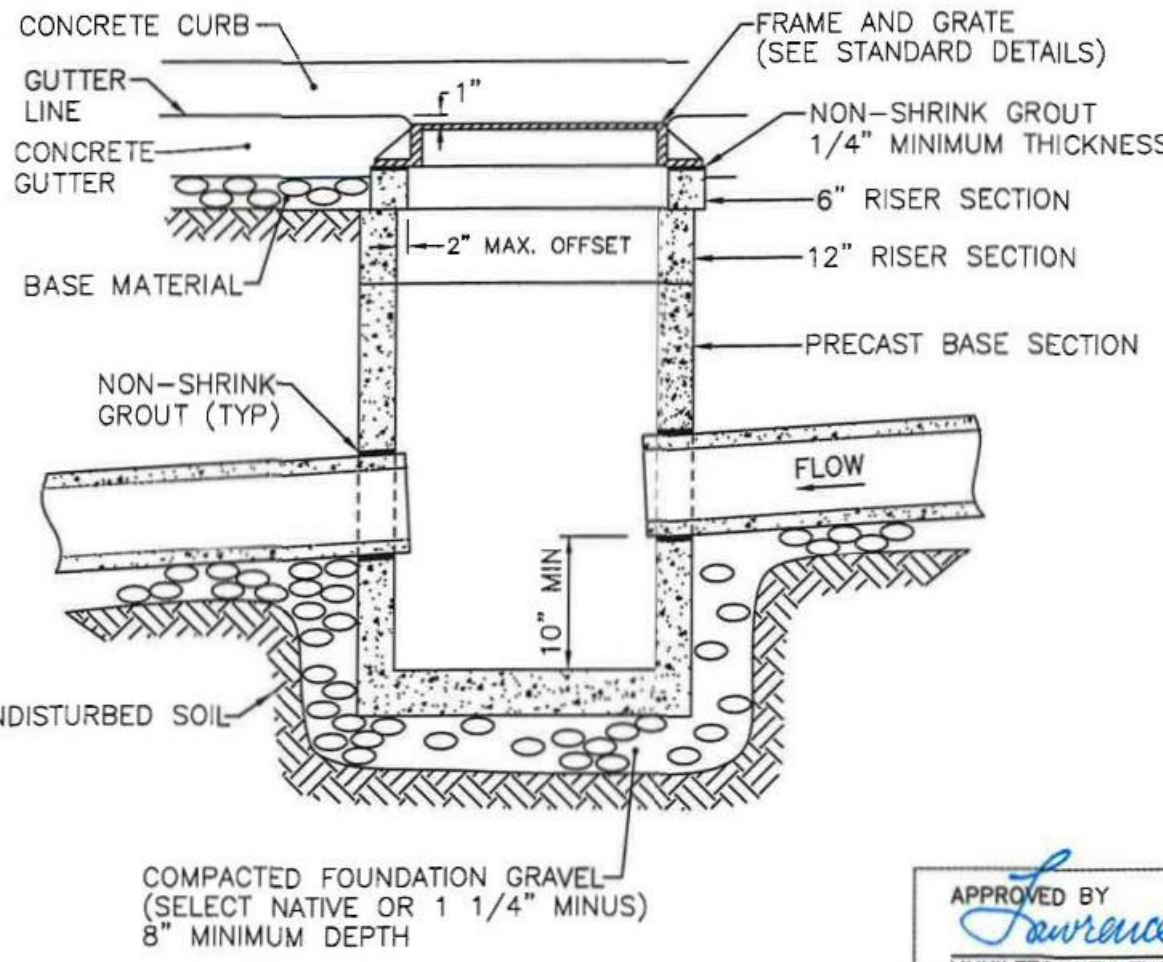


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MUKILTEO CITY ENGINEER
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CITY OF MUKILTEO
STANDARD PLAN 4-080-004

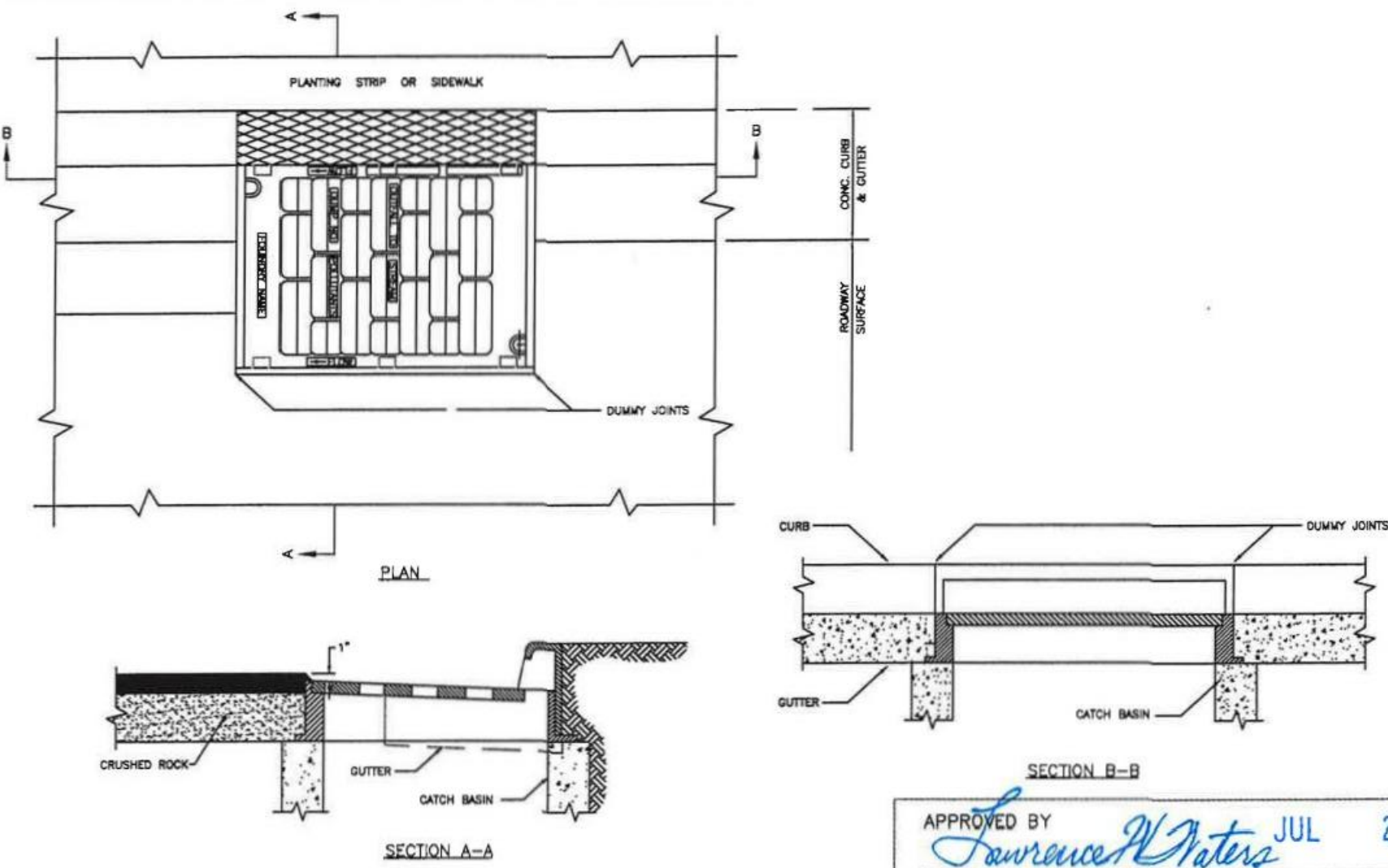


- NOTES:**
- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (ASTM M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
 - AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A675 (ASTM M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
 - ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
 - PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
 - KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIA. PLUS CATCH BASIN WALL THICKNESS.
 - ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIA. OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
 - THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INLET IS 5'-0".
 - THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2"/FT.
 - CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-1-640. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
 - FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
 - EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
 - MINIMUM 4" ADJUSTMENT SECTION BETWEEN BOTTOM OF GRATE AND TOP OF BASE SECTION.

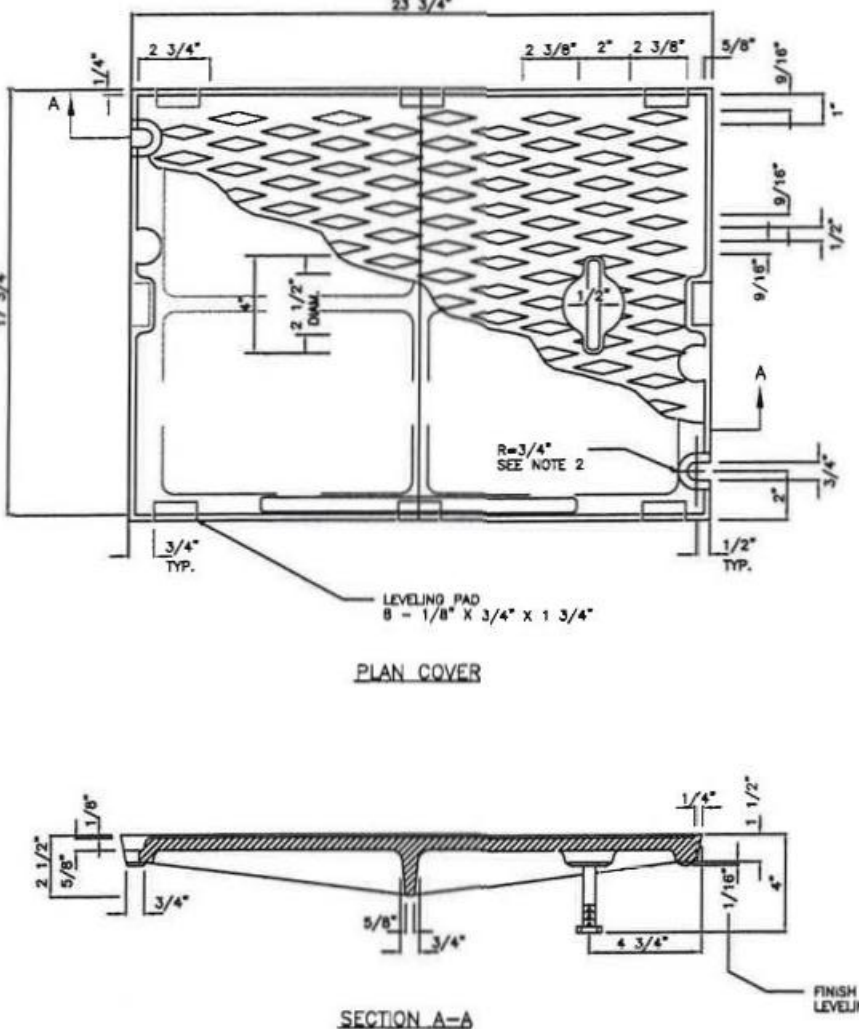
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STANDARD PLAN 4-080-010



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STANDARD PLAN 4-080-018



- NOTES:**
- USE WITH FRAME (DWG. NO. 4-080-025) DRILLED AND TAPPED FOR LOCKING BOLTS.
 - USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS, 2" LONG.
 - MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
 - RAISED WORDING "DRAIN" OR "STORM" ON ALL COVERS.

APPROVED BY
Laurance Waters JUL 2009
MUKILTEO CITY ENGINEER
DATE
CITY OF MUKILTEO
STANDARD PLAN 4-080-024



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ROADWAY DETAILS

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Revision Description
No.
Date
By



24" WIDE STOP LINE

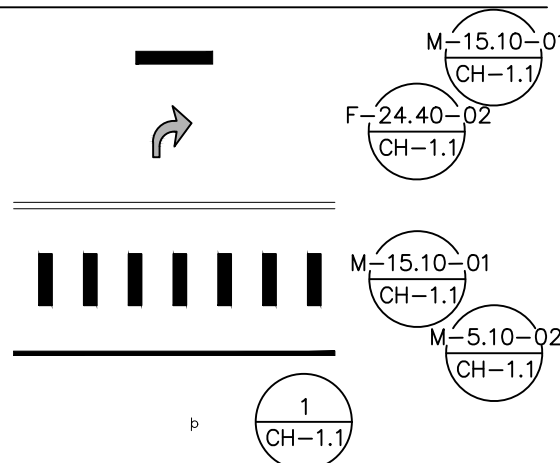
WSDOT TYPE 2R RIGHT TURN ARROW

DOUBLE YELLOW CENTERLINE STRIPING

CROSSWALK STRIPING

WIDE LINE

STOP SIGN



NOTES:

1. SEE SHEET CH-1.1 FOR CHANNELIZATION DETAILS.
2. LONG LINE CHANNELIZATION, ARROWS, AND ASSOCIATED PAVEMENT MARKINGS SHALL BE PER WSDOT STANDARD PLANS AND SPECIFICATIONS.



CH-1.0	<p>44TH AVE W IMPROVEMENTS</p> <p>PACIFIC SEAFOODS 8007 44TH AVE W MUKILTEO, WA 98274</p> <p>CHANNELIZATION PLAN</p>
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Designed By:	SNG/JWT	Issue Date:	09/16/2016
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